# REMEDIAL INVESTIGATION WORKPLAN

CENTRAL STEEL DRUM 704 Doremus Avenue Newark, NJ

Prepared For

Central Steel Drum 704 Doremus Avenue Newark, NJ

Prepared By

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JMS Project 93086

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# CENTRAL STEEL DRUM REMEDIAL INVESTIGATION PLAN

## 1.0 INTRODUCTION

J M Sorge, Inc. (JMS) was retained by Central Steel Drum to develop a Remedial Investigation Workplan (RIW) for their facility located in Newark, New Jersey. The RIW is required in accordance with a Joint Consent Order (JCO) executed between Central Steel Drum (CSD) and the New Jersey Department of Environmental Protection and Energy (NJDEPE). The initial plan was prepared following a meeting between NJDEPE and CSD on June 14, 1990. During that meeting it was mutually agreed that CSD would conduct a RIW of the site. The following represents a revision of the initial plan to incorporate changes required by NJDEPE's technical guidance for plan preparation. Specifically, the following plan was developed in accordance with the Department's Technical Site Requirements for Site Remediation (TRSR) published on June 7, 1993.

The objective of the RIW is to identify the presence and extent of any areas of significant contamination on the site. will include an investigation of soil, groundwater and surface water conditions, and sediment quality on and around the CSD facility. The soil program will determine the soil quality within the fill layer since the primary potential source of site contamination is surface spillage. Deeper sampling will be conducted in the underground storage tank area and the septic tank area, since these units represent the only potential subsurface sources at the site. A groundwater monitoring program is proposed in order to determine the potential impact of the CSD facility on the two (2) water bearing zones beneath the facility; the refuse fill layer and the silty sand aquifer beneath the native clay soil layer.

The investigation of surface water and sediments on the site was designed to determine if the various CSD operations have impacted the surface water drainage system at the site, and also to determine if these impacts have affected off-site surface water systems. A complete evaluation of water quality, as well as sediments within the drainage system surrounding the site, will be conducted.

## 2.0 SITE HISTORY

#### 2.1 FACILITY SETTING

CSD, which currently occupies the site, reconditions open steel drums received from various industries ranging from food to paint manufacturing. The initial phase of reconditioning involves incineration; this is followed by sandblasting and repainting.

CSD has been in operation since 1951. Prior to 1951, the site was occupied by an ink manufacturer. The site occupies a total area of eight (8) acres. A site location map is provided as Figure 1 for reference.

The site is located in the industrial area of Newark Bay, east of the NJ Turnpike and north of Newark International Airport. The site is situated on refuse-filled marshland. The nearest residential area is 1.5 miles west of the site (Ironbound section of Newark). Site drainage is routed to Newark Bay via a series of man-made ditches.

Limited site information is available regarding the soils and groundwater beneath the CSD site. Previous investigations (1983) indicate that the facility is constructed on poor quality refuse fill ranging in depth from 4 to 12 feet. Filling is believed to have occurred through the 1920s and 1930s. A clay layer extends from the base of the fill to a depth of 17 to 20 feet. A reddish-brown, fine silty sand is encountered beneath the clay layer. Groundwater was reported in the fill layer at shallow depths (1 to 2 feet) and with the sand layer at a depth of 5 to 6 feet below the surface.

As indicated in the previous investigation, this results in a perched water condition within the refuse fill material above the clay layer. Thus, the facility is prone to frequent flooding following periods of precipitation. Storm water on the site is routed to a ditch system which extends along the southern and eastern sides of the property. Storm flow is directed via the ditch to the east toward Newark Bay (Figure 2).

The surrounding area is heavily industrialized. The site was investigated by the NUS Corporation, under the Region II FIT contract, on February 6, 1986. According to the NUS report, there was no potential impact to the population associated with groundwater, surface water, or air emissions from the site, and there was no potential for direct population contact. NUS concluded that there was no potential risk due to fire or explosion; no drinking water affects, and no population risk of exposure or injury. NUS also concluded that there was a low risk of damage to flora, fauna, and the food chain associated with surface runoff from the site. NUS indicated that the labor force present (110 people) could be exposed due to spills and contaminated soil.

#### 2.2 OWNERSHIP HISTORY

The following section was prepared by Counsel to CSD and has been included in its entirety.

IN THE MATTER OF CENTRAL STEEL DRUM CO., ET AL.

# OWNER/OPERATOR HISTORY 704 DOREMUS AVENUE NEWARK, NEW JERSEY

The following history of the owners and/or operators of the Central Steel Drum Company site located at 704 Doremus Avenue in Newark, New Jersey is prepared and submitted in accordance with Paragraph II.B.1. of Appendix B of Attachment A to the May 9, 1190 Directive issued by the New Jersey Department of Environmental Protection to Central Steel Drum Company. Listed below in chronological order are the past owners and/or operators of the site, the period of such ownership and/or operation, the type of operation conducted on the site by each owner and/or operator, and the current or last known address of each owner and/or operator, if known.

OWNER/OPERATOR: The Land Filling & Improvement Company

PERIOD: June 14, 1902 to November 2, 19221

OPERATION: Landfill

CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: Bayone, New Jersey

OWNER: Maynard F. Holt

PERIOD: November 2, 1922 to November 2, 19222

<sup>1</sup> Without an extensive and extremely detailed title search, the exact date upon which The Land Filling and Improvement Company acquired title to the real property comprising the Central Steel Drum Company site cannot be determined. It is known that The Land Filling & Improvement Company first began acquiring properties in the City of Newark on June 14, 1902, last acquired a property in Newark on December 26, 1918 and sold its properties on November 2, 1922. It is possible that the Central Steel Drum Company site is a compilation of various parcels of property which were acquired by The Land Filling & Improvement Company on various dates.

<sup>&</sup>lt;sup>2</sup>Note that immediately upon acquiring title to the site from The Land Filling & Improvement Company, Maynard F. Holt transferred the property to International Inks, Inc.

OPERATOR: None (see footnote 2)
OPERATION: None (see footnote 2)

CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: Larchmont, New York

OWNER/OPERATOR: International Inks, Inc. PERIOD: November 2, 1922 to June 12, 1928

OPERATION: Ink Manufacturing CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 580 Fifth Avenue, New York, New York

OWNER/OPERATOR: The International Printing Ink Corporation

PERIOD: June 12, 1928 to December 21, 1928

OPERATION: Ink Manufacturing CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 432 New Street, Cincinnati, Ohio

OWNER/OPERATOR: International Inks, Inc.

PERIOD: December 21, 1928 to December 17, 1929

OPERATION: Ink Manufacturing CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 580 Fifth Avenue, New York, New York

OWNER/OPERATOR: The International Printing Ink Corporation

PERIOD: December 17, 1929 to December 28, 1934

OPERATION: Ink Manufacturing CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 432 New Street, Cincinnati, Ohio

OWNER/OEPRATOR: Philip Ruxton, Inc.

PERIOD: December 28, 1934 to December 20, 1948

OPERATION: Unknown (poosibly ink and/or chemical manufacturing)

CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 350 Fifth Avenue, New York, New York

OWNER/OPERATOR: Interchemical Corporation

PERIOD: December 20, 1948 to December 28, 1951

OPERATION: Unknown (poossibly ink and/or chemical manufacturing)

CURRENT ADDRESS: Unknown

LAST KNOWN ADDRESS: 44 East Broad Street, Columbus, Ohio

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OWNER: Bessie Baron, Ruth Greenberg, Mollie Ratner and Dorothy

Greenberg

PERIOD: December 28, 1951 to March 31, 1965

CURRENT ADDRESS: Bessie Baron, 1299 Wellington Avenue, West

Englewood, New Jersey; Dorothy Greenberg, 6131

La Groce Drive, Miami Beach Florida

LAST KNOWN ADDRESS: Ruth Greenberg, deceased, 5 Archbridge Lane, Springfield, New Jersey; Molly Ratner, deceased, 135 Ocean Parkway, Brooklyn, New York<sup>3</sup>

OPERATOR: Central Steel Drum Company OPERATION: Recycling of steel drums

CURRENT ADDRESS: 704 Dovemus Avenue, Newark, New Jersey

OWNER: Dore Realty Co., Inc.

PERIOD: March 31, 1965 to July 22, 1966

CURRENT ADDRESS: 30 Journal Square, Jersey City, New Jersey

OPERATOR: Denotral Steel Drum Company OPERATION: Recycling of steel drums

CURRENT ADDRESS: 704 Doremus Avenue, Newark, New Jersey

OWNER: Bessie Baron, Abbie Greenberg, 4 Mollie Ratner and Dorothy Greenberg

PERIOD: July 22, 1966 to August 30, 1968

CURRENT ADDRESS: Bessie Baron, 1299 Wellington Avenue,

West Englewood, New Jersey; Abbie Greenberg, 5 Archbridge Lane, Springfield, New Jersey; Dorothy Greenberg, 6131 La Groce Drive,

Miami Beach, Florida

LAST KNOWN ADDRESS: Mollie Ratner, deceased, 135 Ocean Parkway, Brooklyn, New York (see footnote 3)

OPERATOR: Central Steel Drum Company OPERATION: Recycling of steel drums

CURRENT ADDRESS: 704 Doremus Avenue, Newark, New Jersey

OWNER: Bessie Baron, Mollie Ratner and Dorothy Greenberg

PERIOD: August 30, 1968 to October 26, 1988

CURRENT ADDRESS: Bessie Baron, 1299 Wellington Avenue,

West Englewood, New Jersey; Dorothy Greenberg,

6131 La Groce Drive, Miami Beach, Florida

LAST KNOWN ADDRESS: Mollie Ratner, deceased, 135 Ocean Parkway, Brooklyn, New York (see footnote 3)

OPERATOR: Central Steel Drum Company OPERATION: Recycling of steel drums

CURRENT ADDRESS: 704 Doremus Avenue, Newark, New Jersey

The Estate of Mollie Ratner was administrated by Jane Ratner Mattson and Marion Ratner Abrams as co-executrices whose current addresses are 25 Hardscrabble Hill, Chappaqua, New York and 10810 Missouri Avenue, Los Angeles, California, respectively.

<sup>&</sup>lt;sup>4</sup>Abbie Greenberg was married to Ruth Greenberg and succeeded to Ruth's interests in the site upon her death.

Bessie Baron, Dorothy Greenberg, Jane Ratner Mattson and

Marion Ratner Abrams<sup>5</sup>

October 26, 1988 to present PERIOD:

Bessie Baron, 1299 Wellington Avenue, West Englewood, New Jersey; Dorothy Greenberg, 6131 CURRENT ADDRESS:

La Groce Drive, Miami Beach, Florida;

Ratner Mattson, 25 Hardscrabble Hill, Chappaqua, New York; Marion Ratner Abrams, 10810 Missouri Avenue, Los Angeles, California

Central Steel Drum Company OPERATOR: OPERATION: Recycling of steel drums

CURRENT: 704 Doremus Avenue, Newark, New Jersey

<sup>5</sup>Jane Rather Mattson and Marian Rather Abrams succeeded to the interests of Mollie Ratner upon her death.

#### 2.3 PRODUCT DESCRIPTION

CSD is engaged in the re-manufacture of 55-gallon steel drums. Drums are incinerated, sandblasted, and repainted as part of the process. CSD maintains an inventory of used drums at the site. Drums were formerly stored in large stacks on open soil in the plant yard area. Presently some drums are still stored in the yard but the bulk of the drums are stored in trailers to prevent direct contact of the drums with the elements. The on-site inventory of hazardous materials includes primarily paint and adhesives. A copy of the facility's current Community Right to Know Survey, which lists all hazardous substances on the facility, is provided in Attachment 1. We have also included a copy of the facility's permit application.

#### 2.4 SITE PLANS AND AERIAL PHOTOGRAPHS

The CSD office was damaged in a fire in January 1983, as a result of the explosion of the adjacent Texaco terminal. CSD has informed us that all construction drawings and associated plant records were destroyed at that time. Therefore, there are no as-built engineering plans for the facility.

JMS has reviewed aerial photographs of the site area to establish the activities at the site. Aerial photographs from 1940, 1947, 1951, 1959, 1963, 1968, 1973, 1978, 1983, 1985 and 1991 were evaluated. The facility was present in the 1940 photograph. At that time, the facility was used as an ink production facility. There were a series of five (5) aboveground tanks present on the plant site just west of the main plant structure. Five (5) larger aboveground tanks are located just north and east of the plant on property which is no longer part of the CSD site. The plant consisted of three (3) main structures which are still present on the site today. The 1947 aerial shows very little change from the previous photograph, as does the 1951 photograph.

The 1959 aerial, the first aerial after CSD occupied the site in 1951, shows a significant change in the CSD site. It is obvious that the use has changed, and several changes and additions are readily apparent. Drums are visible in the yard area for the first time. The present drum conveyor system is present and the incinerator has been installed. The drainage system around the site was altered to reflect its current configuration. In general, the plant appears much as it does today with the exception of the office structure. There are no changes noted in the 1963 aerial.

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The 1968 aerial shows a new structure on the western side of the plant. In addition, it appears that the truck fueling area is in place at this time. The only other significant change occurred following the fire in 1983. The 1985 aerial shows that the western building has been removed, the three (3) original plant buildings have been linked together and the area between roofed over. The concrete pad remaining from the western building is believed to be the current reject drum storage pad.

Due to schedule constraints in providing the RIW, we have not received the earlier Sanborne maps for the site area. However, based on previous boring data and our review of aerial photographs, the site was constructed on refuse-filled marshland. This apparently occurred well before the 1940 aerial photographs were taken. There was no significant filling activity taking place in any of the aerial photographs.

#### 2.5 SURROUNDING WELL DATA

JMS completed a well survey of the area within a one-half mile radius of the site. Well records were obtained from the NJDEPE, Division of Water Resources (DWR). All wells located within a one-half mile radius of the CSD facility were plotted for evaluation. Well search data and related documentation is provided in Attachment 2, and the locations of the wells identified are plotted on Figure 3.

A total of sixty (60) wells were identified on a total of eight (8) sites within a one-half mile radius of the CSD facility. Fifty-one (51) of the identified wells are used for monitoring purposes; eight (8) of the wells identified are observation wells, and one is listed as a recovery well. None of the sixty (60) wells located within a one-half mile radius of the CSD facility are used for domestic purposes. As illustrated on Figure 3, two (2) monitoring wells at one facility are located approximately 1200 feet downgradient of the CSD facility. remaining fifty-eight (58) wells are located either upgradient or sidegradient to the CSD facility. These locations are based on the reported regional groundwater flow direction toward the This flow direction was confirmed during previous northwest. investigations conducted on-site.

The results of the well search conducted for the CSD facility confirm that no potential receptors are located within a one-half mile radius of the CSD facility. Based on these findings, and the fact that the facility is located in a highly industrialized area of Newark, New Jersey, it appears that CSD does not pose a threat to any potable receptors. In addition, previous investigations conducted on-site by NUS confirmed that groundwater at CSD is relatively clean and does not pose a significant environmental threat to regional groundwater quality in the area.

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The site area was previously investigated by NUS in February 1986 under contract to the USEPA. The results of their investigation are as follows:

Wells are commercially owned and are located west and north-west of the site. Wells vary from 200 to 900 feet in depth and average about 350 feet. No drinking wells are present. Nearest downgradient well is on Delancey Street in Newark, and is owned by Rutherford and Delancey Holding Corporation. The nearest well is one mile from the site. All the wells to the west of the site tap the Brunswick Aquifer which is charged by Newark Bay. Groundwater flow is away from Newark Bay because of heavy pumping conditions in Newark.

## 2.6 ENFORCEMENT HISTORY

The following section was prepared by Counsel to CSD and includes a summary of all known violations prior to submittal of the Remedial Investigation Plan. The following has been included in its entirety.

A880296 SBA, CDS April 7, 1988; A880297 SBA, CDS dated April 7, 1988; A880298 SBA CDS dated April 7, 1988; A880299 SBA, CDS dated April 7, 1988; A881021 MRA, CDS dated August 9, 1988.

In the Matter Central Steel Drum Co., etc., Log No. A881677 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated October 20, 1988

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-11.3(d). CSD has denied these allegations and has filed a request for Administrative Hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

In the Matter of Central Steel Drum Co., etc., Log No. A881678 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated October 20, 1988

This Administrative Order alleges that CSD permitted illegal smoke emissions to escape from its facility. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent smoke emissions.

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In the Matter of Central Steel Drum Co., etc., Log No. A881679 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated October 20. 1988

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A890490 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

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In the Matter of Central Steel Drum Co., etc., Log No. A890491 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD permitted illegal smoke emissions to escape from its facility in violation of N.J.A.C. 7:27-11.3(b). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent smoke emissions.

In the Matter of Central Steel Drum Co., etc., Log No. A890656 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 2, 1989

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

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In the Matter of Central Steel Drum Co., etc., Log No. A890657 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 2, 1989

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-11.3(d). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

In the Matter of Central Steel Drum Co., etc., Log No. A890803 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 22, 1989

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A891088 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-11.3(d). CSD has defined these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

In the Matter of Central Steel Drum Co., etc., Log No. A892155 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated September 15, 1989

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A893011 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD permitted open burning at its site in violation of N.J.A.C. 7:27-2.3(a). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has adopted a policy and has instructed its employees against open burning. CSD does not permit the open burning of any material at its facility.

In the Matter of Central Steel Drum Co., etc., Log No. A893089 SBA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A900029 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in

operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A900030 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD permitted illegal smoke emissions to escape from its facility in violation of N.J.A.C. 7:27-11.3(b). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent smoke emissions.

In the Matter of Central Steel Drum Co., etc., Log No. A900312 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting

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any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A900313 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD permitted open burning at its site in violation of N.J.A.C. 7:27-2.3(a). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has adopted a policy and has instructed its employees against open burning. CSD does not permit the open burning of any material at its facility.

In the Matter of Central Steel Drum Co., etc., Log No. A900314 SBA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-11.3(d). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

In the Matter of Central Steel Drum Co., etc., Log No. A900518 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD permitted excessive emissions of volatile organic substances from its facility in violation of N.J.A.C. 7:27-16.5. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent excess emissions of volatile organic substances.

In the Matter of Central Steel Drum Co., etc., Log No. A900519 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD operated its facility without all of its component parts in place and in operation in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A900566 MRA, SBA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD permitted fugitive emissions to escape from its facility in violation of N.J.A.C. 7:27-8.3(e)2. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent equipment breakdown.

In the Matter of Central Steel Drum Co., etc., Log No. A900567 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-11.3(d). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

In the Matter of Central Steel Drum Co., etc., Log No. A900568 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD constructed, installed or altered certain incinerator equipment not approved by NJDEP in violation of N.J.A.C. 7:27+11.2(a). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has shut down and does not operate the incinerator equipment and has applied to NJDEP for approval of the incinerator equipment.

In the Matter of Central Steel Drum Co., etc., Log No. A900569 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD permitted open burning at its facility in violation of N.J.A.C. 7:27-2.3(a). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has adopted a policy and has instructed its employees against the open burning of materials at its facility. CSD does not permit the open burning of any material at its facility.

In the Matter of Central Steel Drum Co., etc., Log No. A900570 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD permitted visible emissions to escape from its facility contrary to the provisions of its Permit No. 81990 in violation of N.J.A.C. 7:27-8.3(e)1. CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent visible emissions.

In the Matter of Central Steel Drum Co., etc., Log No. A900571 MRA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated March 29, 1990

This Administrative Order alleges that CSD constructed, installed or altered certain control apparatus or equipment without a permit in violation of N.J.A.C. 7:27-8.3(a) and (b). CSD has denied these allegations and has filed a request for administrative hearing which is currently pending with NJDEP. Without admitting any violations, CSD has applied to NJDEP for approval of the control apparatus and equipment.

In the Matter of Central Steel Drum Co., etc., Log No. A900934 SBA, CDS Administrative Order and Notice of Civil Administrative Penalty Assessment dated May 31, 1990

This Administrative Order alleges that CSD emitted odors from its facility in violation of N.J.A.C. 7:27-5.2(a). CSD intends to file a request for administrative hearing with NJDEP with respect to this Administrative Order. Without admitting any violations, CSD has performed certain minor repairs and has applied to NJDEP for approval to improve the facility with control equipment and apparatus which will prevent odors.

#### 2.7 HAZARDOUS SUBSTANCE STORAGE UNITS

The following provides a summary of all known areas of substance storage or discharge on the site.

#### Septic System

The facility discharges sanitary waste to an on-site septic tank system. There are no construction drawings or details available regarding the design of the septic system and any associated leach field. Based on inspection, the tank appears to have a capacity of 1500 to 2000 gallons. However, due to the presence of sludge, etc., a complete inspection of the tank could not be conducted. A drilling program is proposed in the area of the septic tank to provide additional information regarding this system. The septic system was installed prior to CSD's purchase of the site in 1951. The exact age of the system is unknown. There has been no analysis of the material present in the septic tank.

#### Drum Flip

The drum flipping operation is conducted manually within a small building located at the starting point of the incinerator chain feed system. The drums are opened and flipped onto the chain conveyor system which feeds the drums into the incinerator and subsequently the refinishing plant. The present system, which was installed in 1990, does not generate any discharge with the exception of inadvertent spillage in the drum flip pad. This material is collected daily and accumulated in drums for off-site disposal.

Previously, spillage residue which is not caught in the conveyor system, was contained by a concrete pad sloped to direct the liquid to a drain located to the south of the flipping station. The drain discharged to a concrete containment basin. The containment basin was a concrete-floored unit surrounded by a block, or concrete wall, approximately 8 - 12 inches above the surrounding grade. The block/concrete wall was originally installed to prevent storm water runoff from entering the containment unit. The containment unit drained to a concrete pit to the east which was also concrete floored. This material was historically pumped into the incinerator for processing. CSD also reported that this unit was subject to flooding during adverse weather conditions. During these periods storm water was pumped from this unit into the storm water drainage system which surrounded the site.

## Fuel Storage Tanks

CSD also operates two (2) underground storage tanks on the site for fueling company vehicles. CSD operates a 4,000-gallon diesel and a 3,000-gallon gasoline tank. The tanks are believed to be 15 years old based on aerial photographs of the site. The tanks are registered with the Department in accordance with current Underground Storage Tank (UST) regulations. The integrity of the tanks has not been tested nor has any soil investigation been conducted in this area.

## Reject Storage Pad

CSD receives drums for reconditioning from various suppliers. CSD inspects all drums upon arrival and segregates any non-empty drums for return to the supplier. These rejected drums are relocated to the CSD drum storage area to await pickup by the supplier. The number of rejected drums stored on the concrete pad at any time is variable. Actual storage depends on the types of drums handled on a daily basis. Drums may contain any one of the various compounds produced by CSD's client base. Typically, the drum pad is used to store paints, pesticides, and other organic materials. The drum pad is believed to be the remaining base slab of a structure which occupied this site from approximately 1968 until sometime prior to 1985.

## Incinerator Ash Storage

The facility also generates incinerator ash which is considered a hazardous waste under RCRA regulations. Incinerator ash is stored in two (2) roll-off containers for off-site disposal. The containers are stored on a concrete pad in the incinerator area of the plant. The roll-off containers are supplied by the waste transporter. Roll-offs have been used to containerize the waste since 1985. Prior to 1985, the ash was stored directly on the concrete pad for loading into open top bulk trailers for off-site transport.

There is evidence of spillage of ash in the pad area. Also in the past, CSD has indicated that a small quantity of ash was utilized on-site as fill to level potholes, etc. Inspection reveals evidence of staining throughout the incinerator drum/flip area (Figure 2).

## Miscellaneous Raw Material Storage

CSD also stores raw materials in the plant. CSD purchases paint, adhesives, etc., in 55-gallon drums. The raw material drums are stored inside the main plant on a concrete floor. A typical material inventory includes paint, adhesives, etc.

# 2.8 HAZARDOUS SUBSTANCE DISCHARGE HISTORY

A summary of all known discharges which occurred at the facility is provided in Section 2.7, along with a description of any remediation conducted. Inspection of the site reveals evidence of staining in the drum storage area, the soils adjacent to the rejected drum pad, the drum unloading area, and throughout the drum/flip incinerator area. The quality of affected soils has not been determined. Sampling is proposed to delineate these areas.

CSD removed approximately forty (40) yards of soil from the incinerator area in 1988. The soil was temporarily stockpiled for disposal characterization. The waste characterization results (Attachment 4) indicated PCB levels of approximately 330 parts per million (ppm). The soil was removed and properly disposed of as a hazardous waste. The source of this contamination is unknown, but is believed to be related to operations at the site prior to CSD.

#### 2.9 PREVIOUS SAMPLING DATA

CSD contracted Environics in 1983 to install a series of eight (8) monitoring wells on the site. The wells were installed by CSD in response to a request by NJDEPE. The wells were sampled by Environics in 1983. The Environics' report is included as Attachment 3.

NUS conducted an investigation of the CSD site in February 1986. During their investigation, NUS collected a series of four (4) soil samples, three (3) groundwater samples and one surface water sample. The results are provided along with the NUS inspection report as Attachment 4.

JMS collected two (2) background soil samples and a composite waste characterization sample from the CSD site in August 1988. The sampling was conducted to support the removal of stockpiled soils generated during the regrading of the incinerator area. The results are provided in Attachment 4. The results indicated elevated levels of PCBs were present in the stockpiled soils and the background soils on the site. The source of this contamination is not believed to be related to CSD's operation. Stockpiled soils were removed for off-site disposal in accordance with applicable regulations.

#### 2.10 DATA REVIEW SUMMARY

Limited site information is available regarding the soils and groundwater beneath the CSD site. Previous investigations (1983) indicate that the facility is constructed on a layer of refuse fill ranging in depth from 4 to 12 feet. A clay layer extends from the base of the fill to a depth of 17 to 20 feet. A reddish-brown, fine silty sand is encountered beneath the clay layer. Groundwater was reported in the fill layer at shallow depths (1 to 2 feet) and within the sand layer.

As indicated in the previous investigation, this results in a perched water condition within the more permeable refuse fill water above the clay layer. Thus, the facility is prone to frequent flooding following periods of precipitation. Storm water on the site is routed to a ditch system which extends along the southern and western sides of the property. Storm flow is directed via the ditch to the east, toward Newark Bay.

There is very limited data available for this site. Available results are provided in the reports by Environics (1983), NUS (1986), and JMS (1988), included as Attachment 4. The groundwater results for 1986 indicate that the perched water in the fill soils has been contaminated. Elevated concentrations of various metals and volatile organics are present within the perched water in the refuse fill layer.

NUS also collected two (2) additional groundwater samples from the groundwater wells screened within the lower sand aquifer (20 feet below the surface). The results obtained for the deeper aquifer indicated trace levels of volatile organics (<10 parts per billion [ppb]). However, the analysis also showed a concentration level for methylene chloride of 100 ppb. The results appear to indicate that the intervening clay layer between the fill soils and the deeper sand aquifer has prevented significant vertical migration of the surface contaminants. However, the data available is insufficient to support any final conclusion.

Limited sampling of surface soils has been completed by NUS and JMS. The results confirm elevated levels of metals, volatiles, base neutrals, and pesticides in the surface soils at the site. The horizontal and vertical extent of the contamination present has not been determined. One surface water sample was collected by NUS in 1986; the results confirm elevated levels of metals, base neutrals and volatile organics in the surface water drainage system. The contamination present is probably due to storm water runoff from the affected areas of the site. Additional surface water data is required to adequately assess the present condition within the storm water drainage system.

## 2.11 ENVIRONMENTAL EVENTS

The CSD facility was partially destroyed in a fire which spread from the adjacent Texaco terminal. According to plant personnel, a gasoline storage tank at Texaco ruptured and caught fire in January 1983. Leaking gasoline rapidly spread the fire to the CSD site. During the incident, the production facility and office were damaged. There was no subsequent testing conducted to determine the extent of the residual gasoline and other contaminants from the fire.

CSD regraded the area of the site adjacent to the incinerator in 1988 to provide a level surface for drum storage. The excavated soils were stockpiled for disposal. JMS sampled the stockpiled soils and determined that elevated levels of PCBs were present in the soil. There has been no further investigation of this area of concern.

#### 2.12 ENVIRONMENTAL PERMITS

The following list of Environmental Permits was prepared by CSD and has been included in its entirety.

# CENTRAL STEEL DRUM CO.

ID #	001	002	003	004	005
AGENCY	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION
PERMIT #				LOG 1-86-2793	LOG 1-86-2795
CERT. #	081990	013006	067438		
DATE SUBMITTED	  10/10/86 & 2/9/87 	STACK HAS BEEN	STACK HAS BEEN ELIMINATED	  5/2/86 & 10/21/86 	  5/2/86 & 10/21/86  
DATE OF APPROVED/DENIED	3/1/88 - 1/5/87	2/7/79 APPR.	8/11/82 APPR.		
REASON FOR DENIAL	NA 			STACK HAS BEEN ELIMINATED	STACK HAS BEEN ELIMINATED
EXPIRATION DATE	8/17/90	2/7/89	10/18/91	ſ	
NOTES	  -  -  -  -	REPLACED BY CERT. # 094966 SEE STACK REF.	   REPLACED BY   CERT. #094966 	REPLACED BY CERT. #094967 SEE STACK REF. N.J. #016	REPLACED BY CERT. #094702 SEE STACK REF. N.J. #011

ID #	0 <b>06</b>	007	008	009	010
AGENCY	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION	NJDEP AIR QUALITY DIVISION
PERMIT #	LOG 1-86-2794	LOG 1-86-3750	LOG 1-87-0501	LOG 1-87-0502	
CERT. #	·				06 <b>99</b> 55
DATE SUBMITTED	  5/2/86 & 10/21/86  	10/21/86	2/12/87	2/1 <b>2/87</b>	 
DATE OF APPROVED/DENIED REASON FOR DENIAL					   10/16/84 APPR.   
EXPIRATION DATE	STACK HAS BEEN ELIMINATED	STACK HAS BEEN ELIMINATED	STACK HAS BEEN ELIMINATED	STACK HAS BEEN ELIMINATED	10/16/94
NOTES	REPLACED BY CERT. #094968 SEE STACK REF. N.J. #017		  REPLACED BY  CERT. #094704  SEE STACK REF.  N.J. #013	REPLACED BY CERT. #094703 SEE STACK REF. N.J. #012	

#### 3.0 AREAS OF ENVIRONMENTAL CONCERN

There is very limited actual sampling data available for this facility. The available data consists of sporadic soil, groundwater, and sediment data collected at various times over the past ten (10) years. A review of this data identifies various areas of potential concern which must be investigated as part of the RIW. Based on the limited data available, we have identified the following areas of concern on the site.

#### 3.1 AREAS OF CONCERN - SOILS

The principal CSD operations which may have affected surficial soils on the site are as follows:

- various clients, or by CSD personnel. Excess drums were historically stored in open stacks in the yard area of the site. Due to the volume of drums stored, virtually the entire northern half of the site has been used for this purpose. Due to the large number of drums stored, some surface spillage has occurred; resulting in the staining noted during previous regulatory inspections. Prior to 1959, there were five (5) aboveground storage tanks present on this area of the site. The nature or type of material stored is unknown.
- o Unloading Area Arriving drums are unloaded onto the conveyor (Figure 2). This area may be affected due to drum handling mishaps, etc. Similarly, the conveyor transfer area may also have been affected by drum handling operations. Since the unloading area borders the conveyor system, this area will be addressed along with the conveyor system (Section 4.4)
- conveyor Area Surficial staining has been historically reported along the conveyor line leading from the unloading area to the incinerator. This area of concern also includes the drum deheading area, where closed drum tops are removed. In addition, the drum unloading area will be addressed as part of this area of concern.

- o Drum Flip Area The drums are conveyed to the head of the incinerator system. At that point, drums are overturned and any residual material enters the incinerator. Historically, drum residue was collected in a pit for processing. Incinerator ash is also removed from the same area and loaded into dumpsters for offsite disposal. The potential exists for leakage from the former collection pit, as well as spillage of incinerator ash, throughout this area (Figure 4).
- Reject Pad Drums which enter the site are checked to determine if they contain excess residuals, or are otherwise unacceptable for recycling. Rejected drums are stored on a concrete pad awaiting pickup by the generator. Runoff from the drum pad may have affected surface soils in this area (Figure 2).
- o **Septic System** The facility discharges sanitary waste, roof runoff, and compressor condensate to an on-site septic tank (Figure 2). There are no as-built construction drawings available regarding this septic system. The tank is periodically pumped out by a septic cleaning service on an as-needed basis. The septic may represent a potential subsurface discharge point.
- O Underground Storage Tanks The facility maintains a 3,000-gallon gasoline tank and a 4,000-gallon diesel fuel tank on the premises (Figure 2). These tanks are currently registered, but their integrity has not been verified.

# 3.2 AREAS OF CONCERN - GROUNDWATER

There are currently eight (8) groundwater monitoring wells located on the CSD site (Figure 2). The wells were installed in 1983 by Environics (Attachment 3) under contract to CSD. The wells were required by NJDEPE-DWR in 1983. Three (3) wells were sampled by NUS on February 5, 1986. A copy of the Environics Well Installation Report is provided as Attachment 3.

Previous groundwater results indicate that the perched water present in the refuse fill beneath the site has been contaminated. Groundwater present in the deeper sand zone has only been sampled periodically, but does not appear to have been significantly affected by site operations.

#### 3.3 AREAS OF CONCERN - SEDIMENT/SURFACE WATER

There is virtually no previous data regarding the quality of the surface water and sediment within the site drainage system. NUS collected one water sample during their investigation of the site in February 1986, which indicated elevated levels of volatiles and base neutrals in the stagnant water within the facility drainage ditch.

Based on topographic maps of the area, surface runoff appears to be directed toward the east from the site into a drainage channel system which eventually discharges to Newark Bay. The on-site drainage system consists of a ditch located along the eastern and southern sides of the property (Figure 2). Based on a review of the data available, there does not appear to have been any testing of the sediment in the ditch system to date. The site storm water system is regarded as an area of concern.

## 4.0 SOIL INVESTIGATION PLAN

A series of eight (8) well borings were installed on the site in 1984, at the locations indicated in Figure 2. The boring logs indicate the presence of a refuse fill layer which varies in depth from 4 feet on the western portion of the site, to 12 feet on the eastern portion. The fill appears to be oil-stained in several areas and consists of soil, ash, cobbles and debris. The general quality of the fill soil present has not been investigated; however, similar fill is present throughout the former marshland area which extends well beyond the CSD site boundaries. The fill is underlain by a layer of stiff native clay soils.

The native clay soils contained roots and other decayed vegetation, indicating that the clay surface represents the original meadow-mat surface in this area of Newark. Below the clay, the borings encountered a silty sand layer which extends to an undetermined depth. The boring logs indicate that water is present within the fill layer and within the sand layer. However, there was no water encountered in the clay zone.

# 4.1 GENERAL BORING AND SAMPLING PROCEDURES

There are six (6) areas of potentially affected soils on the CSD site as indicated in Section 3.1. The areas include the following: Yard Area, Reject Pad, Conveyor System Area, Drum Flip Area, Septic Tank, and Underground Storage Tank Area. The first four (4) areas are surficial in nature; therefore, potential impacts should decrease with depth. The last two (2) areas represent the only potential subsurface contaminant sources on the site. The contaminants of concern on this site based on previous results and site history are Volatile Organics (VO), Base Neutrals (BN), Poly-Chlorinated Biphenols (PCB), Pesticides (PE), Priority Metals (PM), and Petroleum Hydrocar-

bons (PHC). Therefore, at least one sample per boring will be analyzed for the EPA listed Priority Pollutants. A summary of sample analysis parameters for each area of concern is provided on Table 1.

The soil sampling program will include the drilling of a series of soil borings within, and around, each area of concern. All borings will be installed by a licensed driller in accordance with applicable regulations. All sampling will be completed in accordance with the QA/QC Plan provided in Section 7.0 and procedures specified in Attachment 5. The anticipated boring locations are discussed in the following sections. In general, the drilling procedure will correspond to the TRSR guidelines as follows:

- o Each boring will be continuously scanned during drilling using a calibrated PID unit;
- Surface sampling will be completed in accordance with TRSR guidelines. Specifically, non-volatile samples will be collected from the 0 to 6-inch soil increment, while Volatiles will be collected from the 0 to 6-inch increment exhibiting the highest PID response from the uppermost 24 inches of the soil column. The boring will then be advanced to the base of the fill layer and a second sample will be collected from the uppermost 0 to6-inch native soil increment;
- Each sample will be logged and scanned using a fully calibrated Hnu photoionization detector; and,
- o JMS will complete a boring log for each boring installed; soils will be classified according to the Unified System.

Soil samples will be selected for analysis based on the area of concern, the physical appearance of the samples, and PID readings in accordance with the TRSR guidelines. All samples will be analyzed for PP pollutants unless specified otherwise in the respective area specific sections which follow. This approach will be used for all sampling conducted on the site as part of the RIW and, therefore, is not repeated in the specific area of concern discussions which follow.

#### 4.2 YARD AREA

The yard area will be sampled in accordance with the TRSR guidelines for miscellaneous potentially contaminated areas. Surficial samples will be collected from selected locations biased toward areas of staining or other indications of contamination. Sample density will be greater than the recommended TRSR requirements of one sample per every two (2) acres. We are proposing to collect four (4) yard samples for the 4-acre yard as shown on Figure 5. Collected samples will be analyzed for PP parameters.

#### 4.3 REJECT PAD AREA

The reject pad area will be sampled in accordance with the TRSR requirements. A series of four (4) borings will be installed as shown on Figure 5. In addition, the pad surface will be inspected for evidence of cracking or deterioration. If any deterioration is noted, an additional sample will be collected from beneath the pad biased toward the deteriorated or cracked area. Samples will be collected at the surface and from the 0 to 6-inch native soil horizon.

#### 4.4 CONVEYOR AREA

The facility uses a system of conveyors to move drums throughout the plant. The conveyor area includes the unloading area and the deheading area as discussed in Section 3. Various legs of the conveyor move drums from the unloading area and the various yard storage areas, to the deheading station and on to the incinerator. The drum conveyor layout is shown on Figure 2. The total length of the conveyor and its various legs is approximately 600 feet.

A total of twenty (20) samples will be collected along the conveyor system to evaluate soil quality in the vicinity of this unit. Soil borings will be located at approximate 30-foot intervals along the conveyor units, biased towards stained areas, etc. The boring spacing in the vicinity of the deheading station and the unloading area will be increased to allow biasing towards handling areas. The approximate locations of the borings is shown on Figure 5; however, actual locations will be field determined. Borings will be sampled at the surface and at the base of the refuse fill layer in accordance with the standard surface boring plan (Section 4.1).

#### 4.5 DRUM FLIP AREA

The drum flip area includes the former sludge containment area, the ash spill area, and the general incinerator yard area. JMS proposes a series of four (4) borings in the vicinity of the former sludge containment pit as shown on Figure 6. An additional four (4) borings will be installed in the incinerator ash bin area as shown on Figure 6. Two (2) additional borings will be placed on the north side of the incinerator conveyor in the ash spill area to evaluate the effect of ash spillage in this area. Samples will be collected from the surface, as well as at the base of the refuse fill layer.

#### 4.6 SEPTIC AREA

As discussed previously, there are no as-built drawings available for the septic system. The aerial photographs suggest that the septic field (if any) would be located beneath the facility office structure. Therefore, we propose to probe the base of the septic tank to determine if the unit has a base. If not, we will sample the unit as a seepage pit in accordance with TRSR guidelines. Specifically, we will obtain a sample from the soil 0 to 6 inches below the base of the unit, and will install a soil boring as close to the unit as possible. The boring location proposed is provided on Figure 5.

If the septic unit has a base (concrete or steel), a test pit will be installed along the eastern and southern side of the office structure. The testpit will be excavated to a depth of five (5) feet below the surface in order to determine if a leach field system is present. If present, the field will be sampled in accordance with the TRSR guidelines. If no field is identified, a series of four (4) borings will be installed as shown on Figure 5. Samples will be collected at the depth of the base of the septic tank and at the base of the fill layer. The objective is to determine if there is any significant impact associated from the septic unit.

#### 4.7 UNDERGROUND STORAGE TANK AREA

CSD operates a 3,000-gallon gasoline tank and a 4,000-gallon diesel tank at their facility. The tanks have been registered but have not been tested for leakage. A series of six (6) borings will be installed around each of the underground storage tanks on the site as shown on Figure 5. Six (6) samples are required for each tank in accordance with the TRSR guidelines. The samples will be collected from the 0 to 6-inch soil increment above the saturation level, if the saturation level is above the tank base depth, as expected. If saturation is not encountered, the samples will be collected from the 0 to 6-inch soil horizon just below the tank base depth. The tank base depth will be determined by sounding for both tank units.

The samples collected in the vicinity of the gasoline tank will be analyzed for Volatile Organics plus a search for the first ten (10) mass spectrometer peaks (VO+10) and lead. The samples collected in the vicinity of the diesel tank will be analyzed for PHC, and the sample with the highest PHC level will also be analyzed for VO+10.

#### 5.0 GROUNDWATER INVESTIGATION

## 5.1 WELL INSPECTION PROCEDURE

There are currently eight (8) groundwater monitoring wells located on the CSD site (Figure 2). The wells were installed in 1983 by Environics (Attachment 3) under contract to CSD. The wells were required by NJDEPE-DWR in 1983. Three (3) wells were sampled by NUS on February 5, 1986. A copy of the Environics Well Installation Report is provided as Attachment 3.

Each of the wells will be inspected to determine if they are presently usable, or if damage has occurred. The wells will be sounded to determine if the open well depths correspond nominally to the installed depths as reported in the Environics report. If the well depths correspond to the approximate initial installation depth, and there is no apparent surface damage to the well, the current wells will be used for sampling.

Any wells determined to be unusable will be properly abandoned in accordance with the Department's well abandonment guidelines. A supplemental well installation and location work plan will be submitted to the Department prior to the replacement of any site wells. If needed, the supplemental plan will include a detailed specification of the well installation procedure, as well as appropriate well specifications. All wells proposed will conform to the Department's specifications for the installation of monitoring wells in unconsolidated formations.

#### 5.2 GROUNDWATER SAMPLING

Following well replacement (if needed), a complete round of groundwater samples will be collected, including all four (4) shallow wells and all four (4) deep wells. Sampling will be conducted using disposable bailers. A separate bailer will be dedicated for use in sampling each well. Specific well sampling procedures are provided in Attachment 5.

Static water levels will be measured using an electronic water level detector prior to purging. Following water level measurement, three (3) volumes of well water will be removed using a submersible pump in accordance with current field program guidelines.

Following purging, the water level will be allowed to return to the approximate pre-purge level prior to sampling. Sampling will be conducted using dedicated disposable bailers. The water samples will be placed in laboratory-certified clean sampling jars and placed in a field cooler at 4°C (wet ice). Chain-of-custody control forms will be completed and each sample jar will be labeled for identification. The sampling team leader will document sampling time, date and other pertinent information in the field notebook and on the sample labels. All groundwater samples will be analyzed for PP and PHC.

## 5.3 GROUNDWATER FLOW AND AQUIFER CHARACTERISTICS

## 5.3.1 Hydrogeologic Aquifer Characteristics

Rising and falling head tests will be conducted on each of the eight (8) wells presently on-site. The objective will be to determine the basic hydrogeologic parameters associated with the refuse fill layer and the deeper sand aquifer. The individual well slug and drawdown tests will provide a measure of the soil and fill permeability, and hydraulic conductivity. In addition, the test results will be used, along with the groundwater flow data, to determine the average groundwater velocity in the fill and soil units beneath the site.

The slug and drawdown test will be conducted using an inert slug in accordance with standard procedures acceptable to the Department. Water level measurements during the slug test will be obtained using manual and electronic recorders to ensure the validity of the results obtained. All results will be provided to the Department for review, along with our analysis of the results obtained.

#### 5.3.2 Groundwater Flow Monitoring

As indicated previously, groundwater flow may be tidally influenced in the site area due to CSD's proximity to Newark Bay. In order to determine the actual tidal influence beneath the site, continuous water level monitoring will be required. Four (4) pressure activated transducers will be mounted in the shallow wells for a period of two (2) weeks. The recording system will be set to record water levels at one-minute intervals over the period. This operation will be repeated a second time for the four (4) deep wells in order to determine if there is any significant difference in flow within the deeper sand aquifer.

Following completion of the deep well water level monitoring cycle, two (2) of the recorders will be removed from the deep wells and placed into the two (2) shallow wells adjacent to the remaining deep well recorders. Again, water levels will be recorded at one-minute intervals over a two-week period. The re-

sults will be used along the tidal influence curve within each water-bearing zone to correlate these curves in time. The tidal curves will also be correlated to tidal periods within Newark Bay.

A series of groundwater surface contour maps will be prepared to reflect flow conditions at critical points in the tidal response curve. The critical points selected will include high and low tidal conditions, but more importantly at periods within minimal tidal influence. The periods of minimal influence will provide a clear indication of the net flow direction beneath the site.

In order to verify recorder linearity, water levels will be measured manually at various times during the water level measurement program. In addition, water levels will be manually measured prior to removal of the transducers from the respective wells. Manual measurements will be used to supplement and verify the recorded water levels.

## 6.0 SURFACE WATER AND SEDIMENT INVESTIGATION

#### 6.1 BACKGROUND INFORMATION

There is virtually no previous data regarding the quality of the surface water and sediment within the site drainage system. NUS collected one water sample during their investigation of the site in February 1986, which indicated elevated levels of volatiles and base neutrals in the stagnant water within the facility drainage ditch.

Based on topographic maps of the area, surface runoff appears to be directed toward the south, from the site, into a drainage channel system which directs the flow toward the east to Newark Bay. Based on the available aerial photographs, it appears that the drainage channel servicing the site was re-routed to its present location at about the time that CSD occupied the site (1951). A complete review of the surface water discharge system will be required to completely determine the course of the discharge channel.

The on-site drainage system consists of a ditch located along the eastern and southern sides of the property (Figure 2). The ditch on the eastern portion of the site is virtually silted-in and presently appears as a swale with a very gentle slope toward the south. The pitch of the entire drainage system is very gentle; therefore, siltation has occurred at the points where surface water entered the system. This has resulted in the gradual silting in of the south-flowing channel on the eastern side of the site. Based on a review of the data available, there does not appear to have been any testing of the sediment in the ditch system to date.

#### 6.2 SAMPLING PROGRAM

A series of surface water and sediment samples will be collected along the course of the on-site ditch system in accordance with TRSR guidelines. The objective will be to determine if CSD operations have impacted the water or sediment quality in the channel. Based on our inspection of the site, it appears that during precipitation events, surface water flows from the incinerator and drum flip area eastward to the drainage channel on the eastern side of the property. Water flows from there southward to the main drainage channel located on the southern side of the site. Flow is then directed eastward toward Newark Bay. This flow pattern probably reverses during periods of storm-induced high tides, etc., but may also be reversed during normal tidal events.

A series of five (5) sampling locations (Figure 5) have been selected along the ditch area. If possible, both surface water and sediment will be sampled at each location; however, there is generally no water present in the ditch along the eastern side of the site. Therefore, water sampling along the eastern ditch may not be feasible.

Surface water sampling will be completed using a stainless steel pond sampler in accordance with the procedures specified in Attachment 5. During sampling, precaution will be taken to prevent unnecessary disturbance of the underlying sediments. Water sampling will proceed from the furthest downgradient pocket to prevent any disturbance of the sampling location prior to sediment sampling.

Sediment samples will be collected using stainless steel hand augers. Sediment samples will be collected from a depth of 1.0 to 1.5 feet below the uppermost sediment surface. However, if non-sediment soils are encountered, the sample depth will be modified to correspond to the deepest 6-inch layer of sediment encountered. Sediment sampling will be conducted in accordance with the procedures specified in Attachment 5. All samples will be analyzed for Priority Pollutants and Petroleum Hydrocarbons. In addition, sediment samples will also be analyzed for total organic carbon, PH, and particle size.

## 7.0 QUALITY ASSURANCE/QUALITY CONTROL

All samples will be accompanied by properly completed chain-of-custody documents at all times. Samples will be stored in field coolers for transport directly to the laboratory (if possible) or to JMS offices in Somerville, New Jersey. Chain-of-custody control will include documentation of each transfer of control of the sample from the time of sample collection through laboratory analysis.

All samples will be analyzed by Accutest Laboratories of Dayton, New Jersey. Accutest is a New Jersey-certified laboratory (#12129) capable of conducting the required analysis. Each sample collected will be analyzed for the complete list of USEPA Priority Pollutant compounds; QA/QC documentation will be provided as outlined in Attachment 5.

#### 7.1 SAMPLE COLLECTION

During the implementation of the sampling and analytical program, the QA/QC procedures specified in the NJDEPE <u>Field Sampling Procedures Manual</u> (May 1992) will be strictly followed. The JMS detailed sampling procedures and field equipment decontamination procedures are presented in Attachment 5. All analyses will be conducted by a NJDEPE-certified laboratory, in accordance with procedures specified in the Proposed New Rule <u>Technical Requirements for Site Remediation</u> (N.J.A.C. 7:26E).

During the implementation of the RIW drilling activities, a JMS geologist will maintain logs of all subsurface material encountered, and will be responsible for sample collection. Between sampling locations, all sampling equipment will be thoroughly decontaminated in order to minimize potential cross-contamination. A trip blank will be provided by the laboratory for additional QA/QC analysis. Field blank samples will be collected in the field, in accordance with NJDEPE guidelines, and analyzed for the target parameters.

Samples will be collected using stainless steel equipment in accordance with standard field procedures. All samples collected for laboratory analysis will be stored in amber glass jars and wide-mouth septum vials with teflon-lined screw caps, and placed in a sample cooler at 4°C (wet ice) for transportation to the laboratory. Standard chain-of-custody control procedures will be observed during all sampling operations. Copies of the appropriate chain-of-custody control forms will be provided with the laboratory results reports. Detailed sampling procedures are provided in Attachment 5.

#### 7.2 LABORATORY ANALYSES

All samples collected by JMS will be analyzed by a New Jersey-certified laboratory capable of conducting the required analysis. The samples collected for laboratory analysis will be analyzed for EPA Priority Pollutants and Petroleum Hydrocarbons unless other analysis is specified in the area specific sections of this plan.

Water samples will be analyzed for total petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples will be prepared for analysis by soxhlet extraction consistent with the March 1990 NJDEPE Remedial Investigation Guide Appendix A, and analyzed by the USEPA Method 418.1.

Water samples will be analyzed for volatile organics by purge and trap gas chromatography/mass spectrometry (GC/MS) as specified in Method 624. Solid samples will be analyzed for volatile organics as specified in the USEPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8240.

Water samples will be analyzed for base neutral extractable organics by GC/MS in accordance with USEPA Method 625. Solids will be analyzed for base neutral extractable organics as specified in the USEPA publication <u>Test Methods For Evaluating Solid Waste</u> (SW-846, 3rd Edition) Method 8270.

Non-target analysis, for both the VO and BN fractions, will be conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard).

Water samples for PM13 analysis are digested and analyzed using USEPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the USEPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050 "Acid Digestion of Soil, Sediments, and Sludges".

## 7.3 PROJECT PERSONNEL RESUMES

The project will be managed and directed by JMS. The resumes of supervisory and management personnel are included in Attachment 6. Additional field personnel will be assigned to the project on an as-needed basis from our staff. All individuals assigned to the field program will be required to have completed their medical monitoring physicals in accordance with JMS procedures, and must have completed at least 40 hours of health and safety training.

#### 8.0 SCHEDULE AND COST ESTIMATE

The RIW Program schedule is provided in Figure 7. As shown, the schedule includes significant milestones, project reports, etc. The anticipated schedule for completion of the RIW is eighteen (18) months unless well replacement is required. If well replacement is required, program completion will require twenty (20) months.

The estimated cost of implementing the RIW plan as outlined is detailed on Table 2. As indicated, the total cost is anticipated to range between \$325,000 and \$330,000. This represents a reasonable estimate; actual costs will depend on the nature and extent of contamination identified in the various areas of concern on the site. This estimate includes all professional fees, laboratory fees, and drilling expenses.

#### 9.0 HEALTH AND SAFETY PLAN

#### 9.1 BACKGROUND

The CSD facility is located on Doremus Avenue in a heavily industrialized section of Newark, New Jersey. The facility is engaged in the business of drum recycling. Used drums are incinerated, cleaned and repainted for reuse.

The objective of the RIW program is to characterize the nature and approximate extent of on-site contamination associated with past and present site operations. The program will include the drilling of approximately thirty-three (33) soil borings to a depth of approximately 15 feet. Soil sampling will be conducted within each boring at the surface and at the base of the refuse fill layer. Soil samples will be collected for laboratory analysis based on the specifications set forth in the RIW. Boring logs will be prepared for each soil boring installed. Soil borings will be installed and sealed by a licensed driller in accordance with applicable guidelines.

The program also includes the sampling of eight (8) on-site groundwater monitoring wells following a thorough evaluation of the structural integrity of each well. Sampling will require pre-sample purging, etc., as specified in the JMS groundwater sampling procedure. Following sampling, continuous water level recorders will be installed in the site wells to record any tidal effects present.

Surface water and sediment sampling (five sample points) will also be completed during this phase of the project. Surface water and sediment sampling will take place outside the site fence line. Sampling will be conducted using pond samplers and hand augers.

#### 9.2 POTENTIAL EXPOSURE RISKS

The available test results are provided in Attachment 4. The results confirm that soils in the incinerator area and other site areas have been contaminated. Therefore, site personnel should avoid any direct contact with the soils, pooled liquids or sludge. Vapor monitoring will be required on a continuous basis in all work areas.

The available data indicates that health risk is primarily associated with direct contact with affected soils, ash or sludge. This material exhibits significantly elevated levels of heavy metals, volatile organic compounds, and pesticides. Potential exposure pathways also include dust inhalation and vapor inhalation, in addition to direct contact.

#### 9.3 SCOPE OF WORK

JMS personnel will be on-site to supervise drilling operations and conduct all sampling required. Specifically, JMS will complete the following items:

- o Ensure that utility mark-outs have been completed prior to the start of any field work;
- Supervise drilling operations, prepare boring logs, verify drilling, sealing, and abandonment permits as appropriate; and,
- o Conduct all soil, groundwater, surface water, sediment and air quality sampling as required by the approved work plan.

CSD personnel will be required to remove stored drums or other material to provide access to all proposed sampling areas.

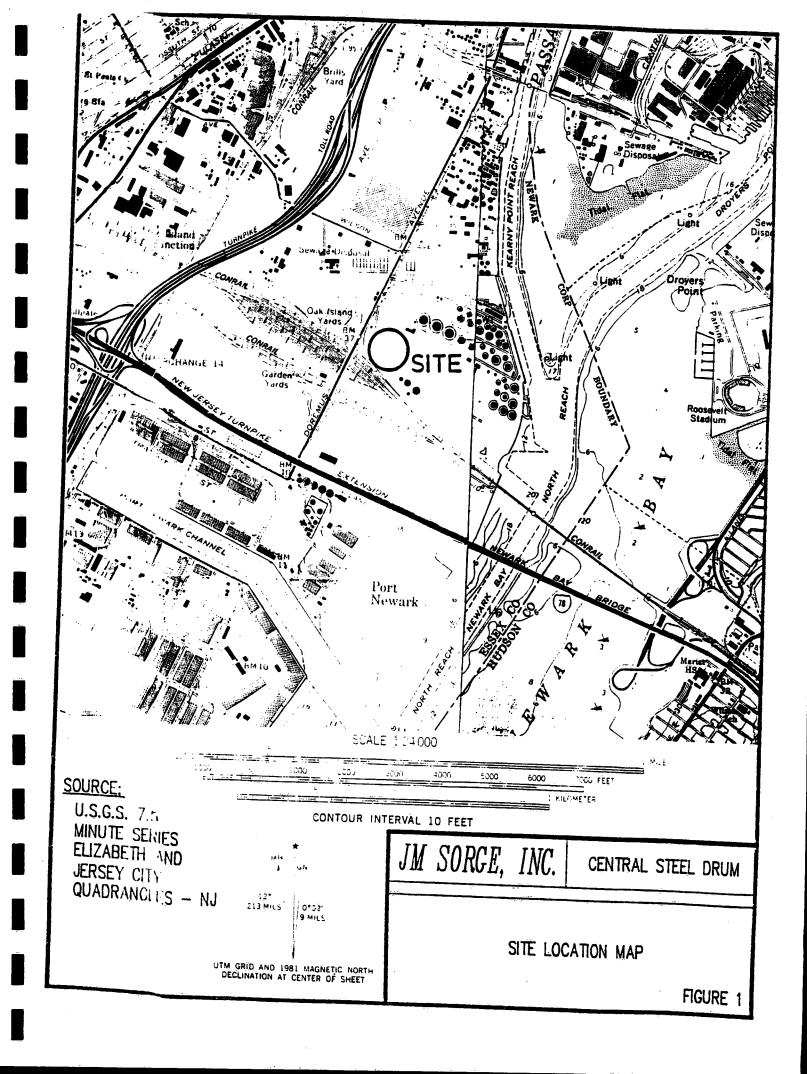
## 9.4 GENERAL WORK REQUIREMENTS

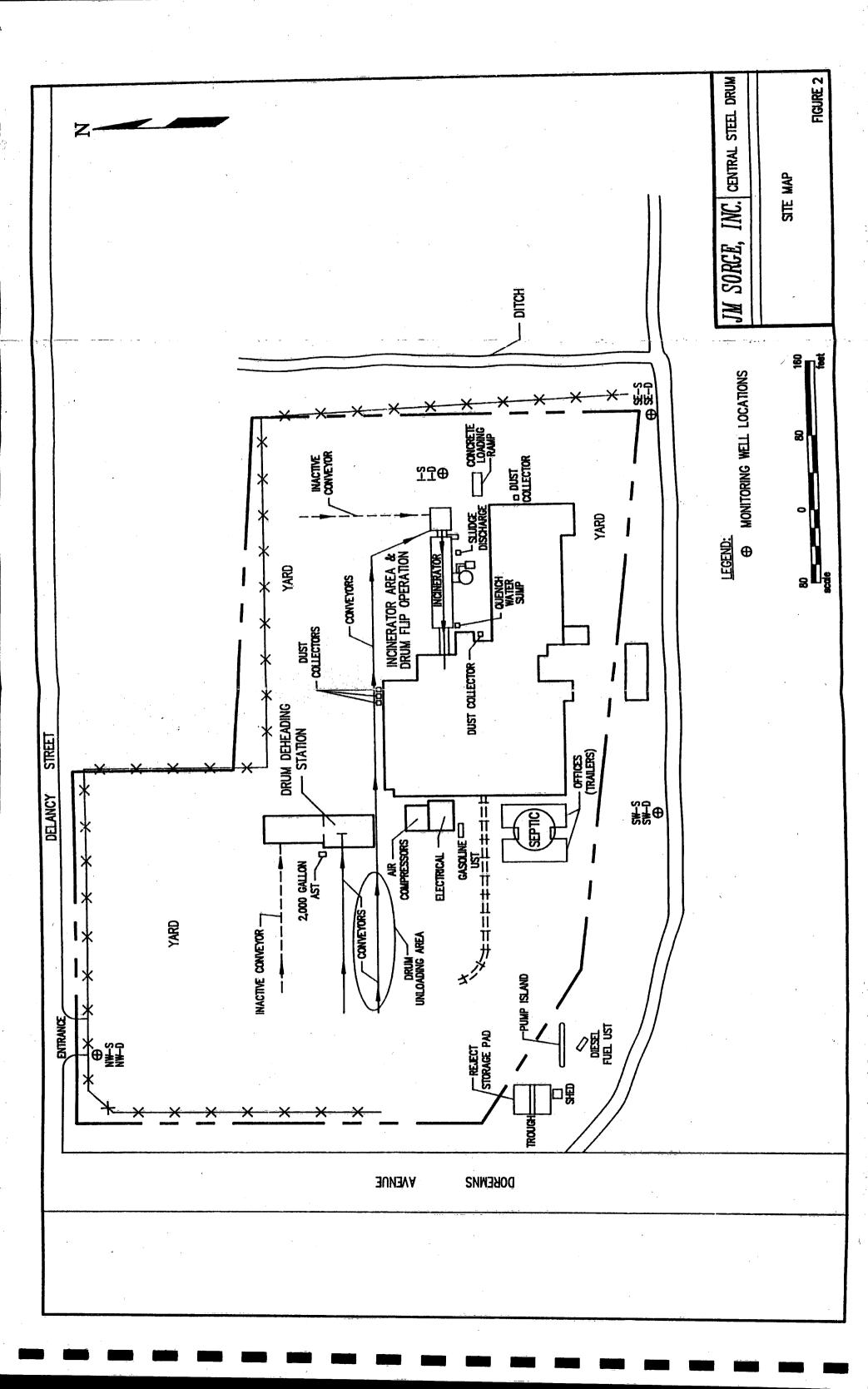
Based on the results of the investigative activities conducted to date at the CSD site, it is currently anticipated that the remedial activities to be implemented at this facility will require "Level D" personal protective equipment. Continuous airmonitoring will be conducted using a PID; the level of personal protection will be upgraded, if deemed necessary, based on the PID response.

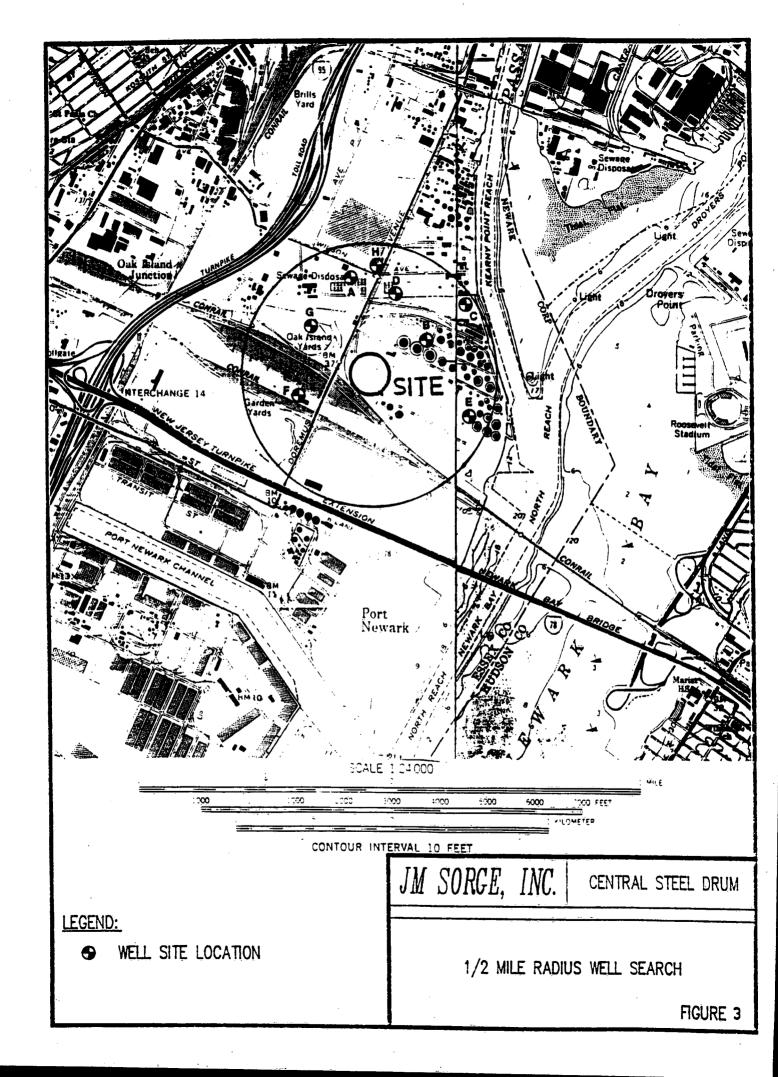
All personnel engaged in the remedial activities at this facility will be required to comply with the following requirements:

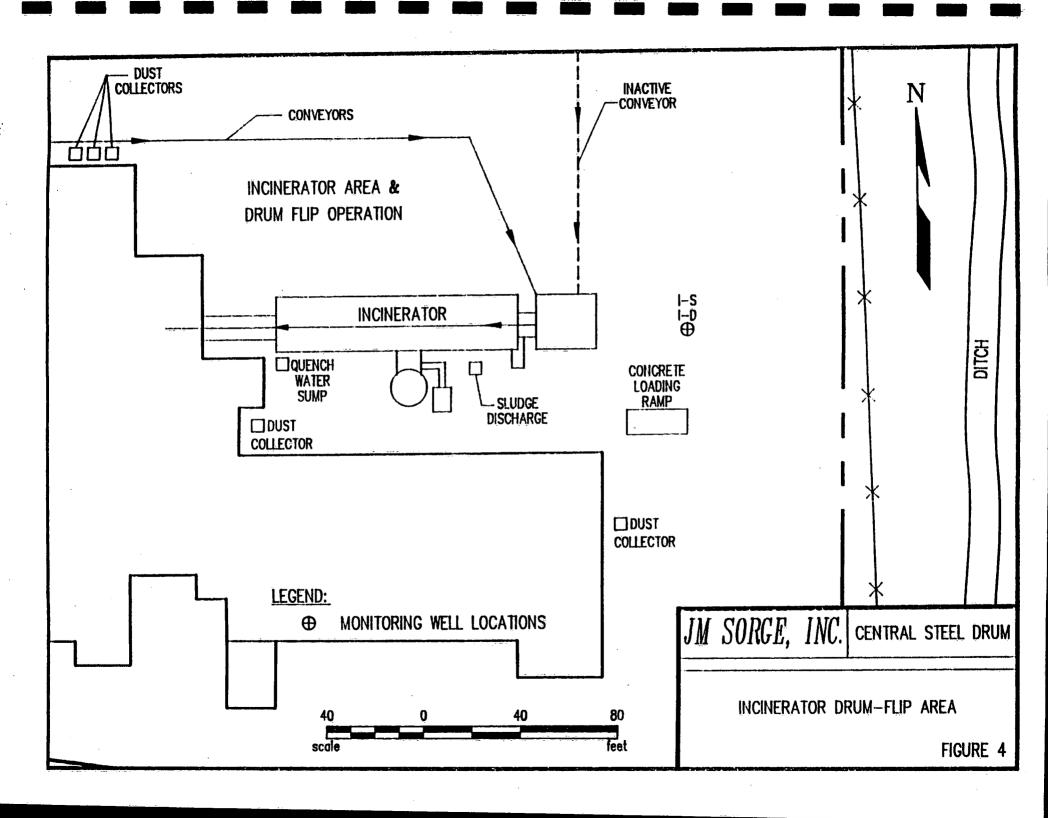
- Have satisfied the medical surveillance requirements of the Superfund Amendment Reauthorization Act (SARA) of 1986 as listed in 29 CFR Part 1910.120;
- 2. Have completed an appropriate safety training course (OSHA 1910.120);
- 3. Have three (3) days of prior fieldwork experience under a qualified supervisor;

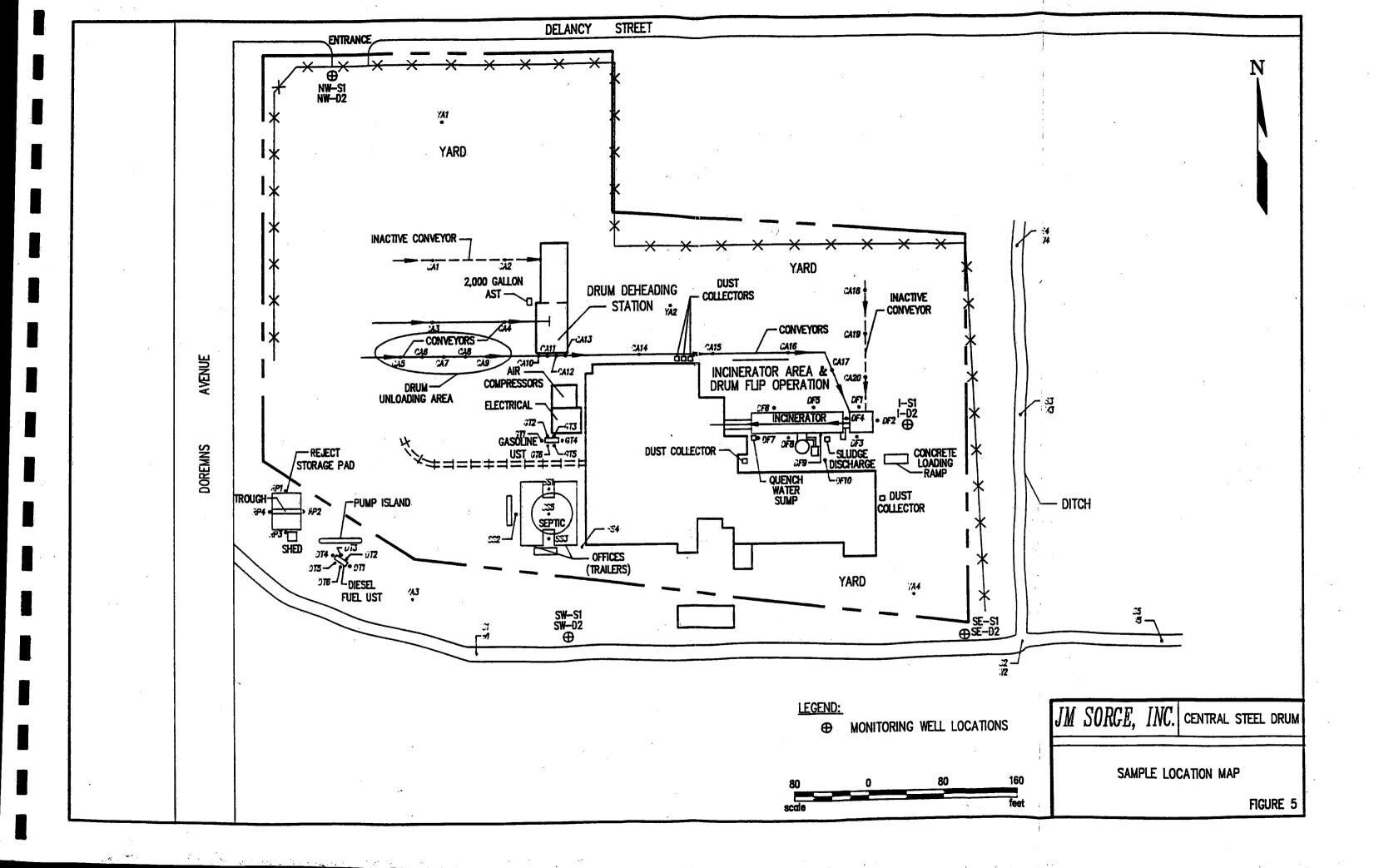
- 4. Have reviewed the HASP and are fully aware of the requirements in the Plan;
- 5. Dressed out in accordance with the task-specific plans;
- 6. No eating, drinking, smoking, or gum/tobacco chewing is allowed in the work zone;
- 7. Individuals will shower, as soon as possible, after leaving the job site at the end of the day; and,
- 8. Contact with contaminated surfaces or surfaces suspected of being contaminated should be avoided while the worker is unprotected. In the event that protective clothing is ripped or torn, work is to stop and the protective clothing removed and replaced as soon as possible. In the event of direct skin contact, the affected area is to be washed immediately with soap and water.

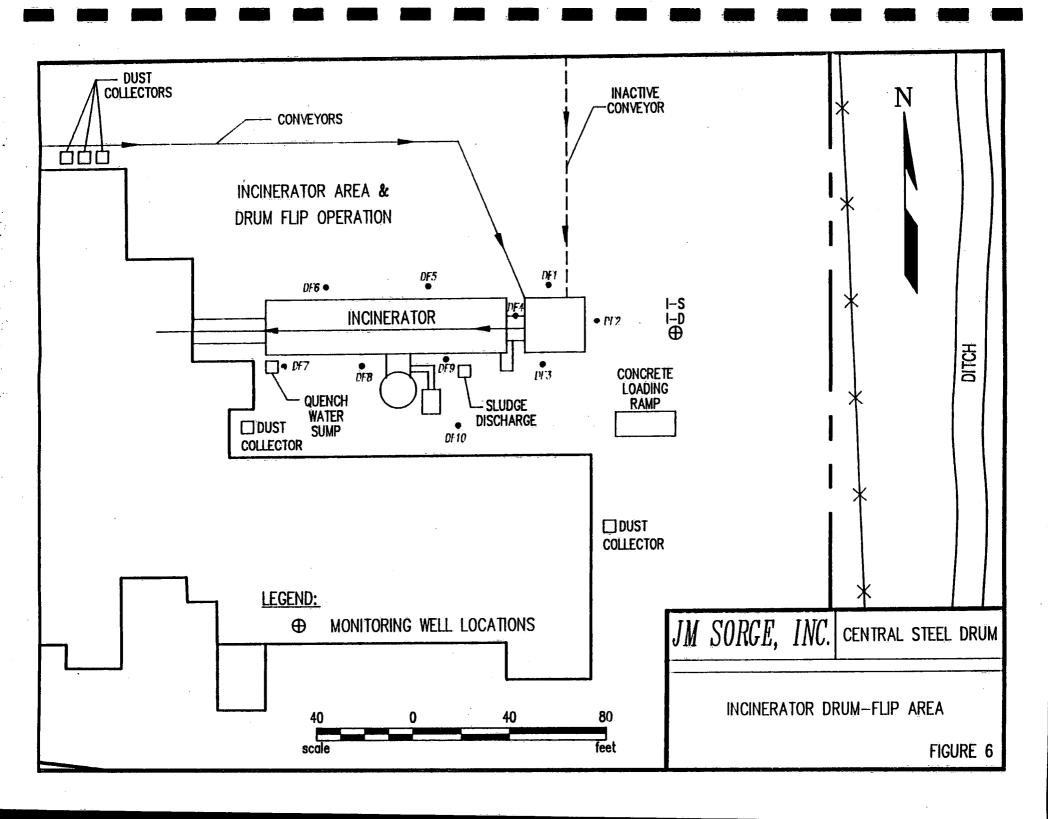












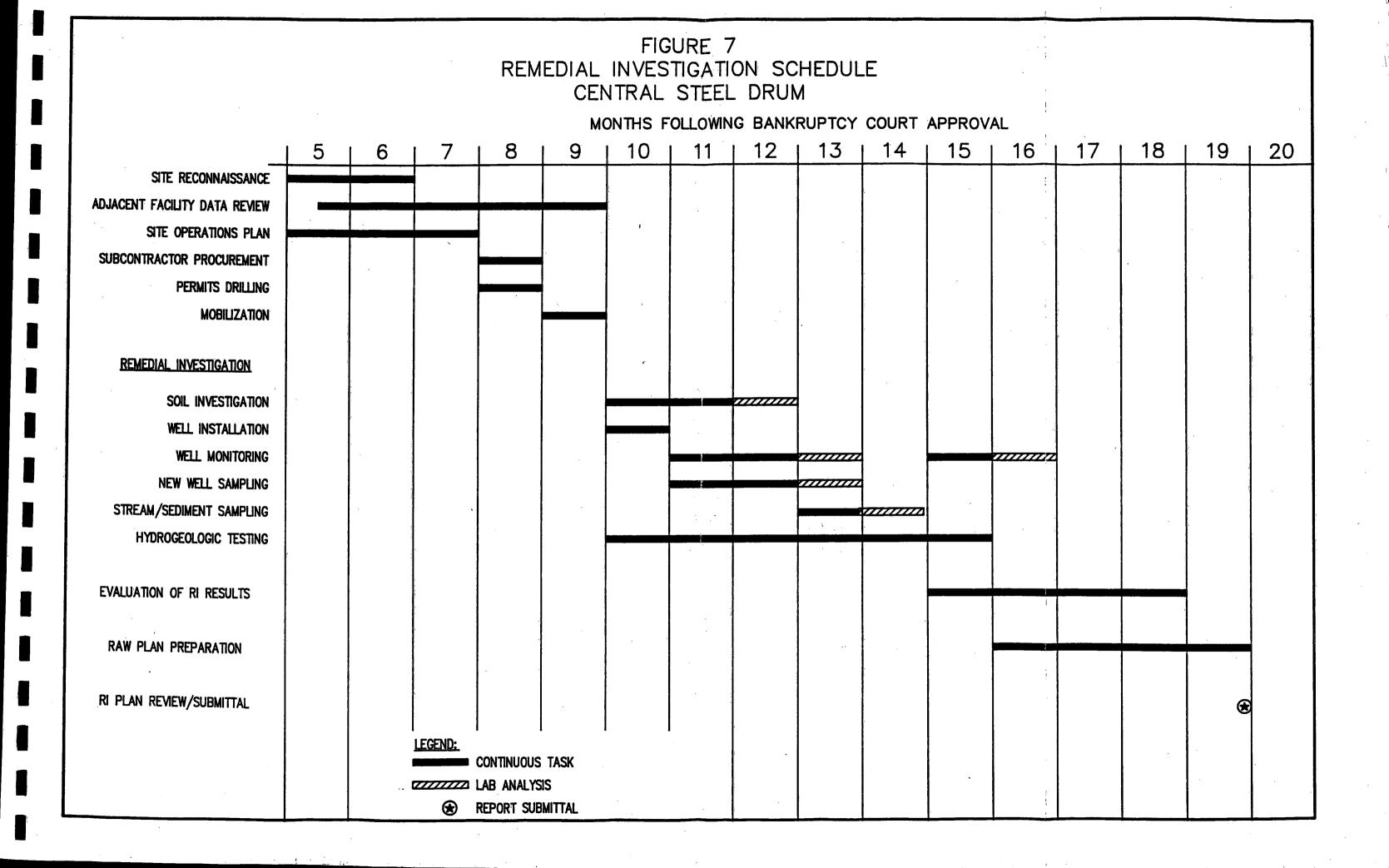


TABLE 1
CENTRAL STEEL DRUM COMPANY
SAMPLING ANALYSIS SUMMARY

Areas of Environmental	Sample Name & Number	Analytical Parameters								
Concern	4 Munice	P <b>P</b>	VO+10	Pb	PHC	рĦ	PS	TOC		
Concern			10.20			<u> </u>				
Yard Area	YA-1A	x					İ			
Idia Aida	YA-1B	x								
	YA-2A	x		• • • • • • • • • • • • • • • • • • • •						
	YA-2B	x		<del> ·</del>						
•	YA-3A	×				1	1			
	YA-3B	x						1		
	YA-4A	х				<u> </u>	· · ·			
	YA-4B	x								
Reject Pad	RP-1A	х					1			
	RP-1B	х	1			1				
	RP-2A	х								
	RP-2B	×								
	RP-3A	х								
	RP-3B	х			†					
	RP-4A	х						1		
	RP-4B	х	1				1			
Conveyor Area	CA-1A	x	1	<del></del>			· · · · · · · · · · · · · · · · · · ·	-		
• • • • • • • • • • • • • • • • • • • •	CA-1B	x	1				1	1		
	CA-2A	х								
	CA-2B	х			. ,			1		
	CA-3A	×.								
	CA-3B	х						1		
	CA-4A	х						1		
	CA-4B	х		-				<b>†</b>		
	CA-5A	х			1			1		
	CA-5B	Х	<del></del>		1					
	CA-6A	х		<del>                                     </del>				<del></del>		
	CA-6B	Х						<b>-</b>		
	CA-7A	х			<b></b>	1	+	<del> </del>		
	CA-7B	х				<u> </u>				
	CA-8A	х			†		<del> </del>	-		
•	CA-8B	x			+		+	+		
	CA-9A	X		The second secon	1		<del></del>	+		
	CA-9B	X	<del></del>	<u> </u>	<del> </del>		<u> </u>	+		
•	CA-10A	X				<del></del>	<del></del>			

#### NOTES

PP - EPA Priority pollutants

VO+10 - Volatile Organic Compounds with a Forward Library Search

Pb - Lead

PHC - Total Petroleum Hydrocarbons

PS - Particle Size

TOC - Total Organic Carbons

(a) - VO+10 analysis will be conducted on 25% of samples in which Total PHC concentrations exceed 1000 parts per million

## TABLE 1 CONT'd CENTRAL STEEL DRUM COMPANY SAMPLING ANALYSIS SUMMARY

Areas of	Sample Name							
Environmental	& Number	22	أمديما	- Dh	DEC	l	700	1
Concern		PP	VO+10	Pb	PHC	PH	PS	TOC
,	CA-10B	<u> </u>					<del> </del>	4
	CA-11A	<u>X</u>			-	<u> </u>		-
	CA-11B	<u> </u>			State to a literature to	<del></del>		
.7 <b>-</b> .	CA-12A	<u> </u>				-		ļ
	CA-12B	X			<del></del>			
	CA-13A	X					<del> </del>	<del> </del>
	CA-13B	X	and the same along the				1	
	CA-14A	X						<u> </u>
	CA-14B	X					<u> </u>	1
	CA-15A	X		D 1 10 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a and a second control of			
	CA-15B	X	ļi			<u> </u>	ļ	
•	CA-16A	X				-		
	CA-16B	X				:	<u> </u>	
	CA-17A	X						
	CA-17B	X						
	CA-18A	X						
	CA-18B	Х						<u> </u>
	CA-19A	X						
	CA-19B	X						
	CA-20A	X						
·	CA-20B	Х.						
rum Flip Area	DF-1A	X						
	DF=1B	×						
•	DF-2A	X						
	DF-2B	X						
	DF-3A	X						
	DF-3B	X						
	DF-4A	X						
	DF-4B	X						
	DF-5A	X	1			†	<del></del>	
•	DF-5B	X					<del>                                     </del>	<del></del>
	DF-6A	X					<del></del>	
	DF-6B	X						
	DF-7A	X		1	The following the state of the	-		
•	DF-7B	X			<del> </del>	+	<del>                                     </del>	+
	DF-8A	х				<del> </del>	201 E	<del></del>
	DF-8B	X				<del> </del>	<del></del>	<del></del>
	DF-9A	X	T			<del>                                     </del>		
	DF=9B	X		<del>                                     </del>	<del>                                     </del>			+
	DF-10A	X	<del>                                     </del>			-		+
	DF-10B	X	<del> </del>	<del> </del>		<del>                                     </del>	<del></del>	

#### NOTES:

PP - EPA Priority pollutants

VO+10 - Volatile Organic Compounds with a Forward Library Search

Pb - Lead

PHC - Total Petroleum Hydrocarbons

PS - Particle Size

TOC - Total Organic Carbons

(a) - VO+10 analysis will be conducted on 25% of samples in which Total PHC concentrations exceed 1000 parts per million

## TABLE 1 cont'd CENTRAL STEEL DRUM COMPANY SAMPLING ANALYSIS SUMMARY

Areas of Environmental	Sample Name			Änaly	tical Par	ameters		
Concern	& Kumper	PP	VO+10	Pb	PHC	рĦ	PS	TOC
Septic System	SS-1	х				, , , , , , , , , , , , , , , , , , ,		
· ·	SS-2	×	1				355	<u> </u>
	SS-3	x						
	SS-4	<u>^</u> х						
UNDERGROUND STORAGE TANKS:	33-4				1		<u> </u>	
Gasoline Tank	GT-1		x	ж		1		
Gasoline Tank	GT-2		X X	x X	<del> </del>			
	GT-3		<del>                                     </del>	<del></del>		<u> </u>		-
			X	X	<del> </del>	+	·	<del> </del>
	GT-4 GT-5		X	<u> </u>		<del> </del>		
	<del></del>		X	<u> </u>	<u> </u>	-		
nia-al made	GT-6	- N	x	X	7/->	<del> </del>		
Diesel Tank	DT-1				X(a)			
	DT-2				X(a)	<del>                                      </del>		<u> </u>
•	DT-3		1		X(a)	<del> </del>		
	DT-4		-		X(a)	ļ		
	DT-5		and the second s		X(a)		·	
	DT-6				X(a)		ļ	ļ
GROUNDWATER:						Ì		
	NW-S1	X				1		<u> </u>
	NW-D2	Х						
	I-S1	X						
	I-D2	X						
	SW-S1	X ·						
	SW-D2	X						
	SE-S1	X						
	SE-D2	X			1.	1		
SURFACE WATER/					]			<u> </u>
SEDIMENT:	W-1	x						
	W-2	X	1	31 1020 10 01				
	W-3	X						1
	W-4	X				† <del></del>		<del>                                     </del>
	W-5	X			1			<del></del>
	S-1	х				х	Х	х
	S-2	х	1	,	1	X	X	X
	S-3	х				x	X	X
	S-4	х				X	X	X
	S-5	х	1		+	X	X	X

#### NOTES:

PP - EPA Priority pollutants

VO+10 - Volatile Organic Compounds with a Forward Library Search .

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PHC - Total Petroleum Hydrocarbons

PS - Particle Size

TOC - Total Organic Carbons

(a) - VO+10 analysis will be conducted on 25% of samples in which Total PHC concentrations exceed 1000 parts per million

## TABLE 2 RIW COST ESTIMATE

	TASK DESCRIPTION	COST
	Site Evaluation	
	Compile and review adjacent facility data Detailed inspection of site drainage system Septic System explorations Storm drainage system evaluation and mapping	\$ 7,500 2,000 1,500 \$ 1,500
	Subtotal Site Evaluation	\$ 12,500
	Field Investigation and Sampling	
	Well installation, soil borings & testpits Sampling and supervision of field activities Program coordination and supervision	\$ 22,500 12,500 \$ 4,500
	Field Investigation and Sampling	\$ 39,500
	laboratory Analysis	
	Priority Pollutants (120) Other samples (30)	\$180,000 \$ 19,500
	Laboratory Analysis	\$199,500
	Groundwater Investigation	
	Tidal effects on water levels - recorders, etc. Hydrogeologic parameters testing all wells Data analysis, verification, and mapping	\$ 4,500 15,000 \$ 5,000
	Groundwater Investigation	\$ 24,000
	Management and Results Analysis	
	Program Management Data analysis, processing, and compilation Report Preparation and Review Remedial Action Workplan Preparation Meetings and Misc. services	\$ 10,000 15,000 10,000 20,000 \$ 7,500
	Management and Results Analysis	\$ 62,500
	Total Estimated RIW Implementation Cost	\$327,000
F	:Estimate does not include the completion of any	remodiati

NOTE: Estimate does not include the completion of any remediation nor disposal of any materials from the site.

## ATTACHMENT 1

COMMUNITY RIGHT-TO-KNOW SURVEY

DEQ-094 9/89

# State of Meta Tersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

## **COMMUNITY RIGHT TO KNOW SURVEY FOR 1989**

to satisfy requirements under SARA, Title III, Section 312 and New Jersey Community Right to Know

NIFIN SIC COUNTYMUNIC.	DUE DATE		
9735700000 3412 0714 CENTRAL STEEL DRUM COMPANY CORF GIEN: NELL FISCHER 704 DOREMUS AVENUE HEWARK, NO 07105	PEEL HERE	A FACILITY If the facthe mailing address	T: A separate survey must be completed for each facility. Y LOCATION illity or township location is different than ng address on the label, enter location or township below.
Indice changes to mailing address on label		above ad	
(See Reportable Substances and Threshold	Community Rid Amendment	ght to Know	Number of employees at facility:      Number of facilities in New Jersey      Dun and Bradstreet No.
Briefly describe the nature of the operation this facility			G Check the box if you were granted a R&D exemption last year or if you wish to receive an application questionnaire.
CHRIFICATION OF OWNER/OPERATOR  aw that I have personally examined and an  based on my inquiry of those individuals re information is true, accurate, and complete  Signature	n familiar with esponsible for	the information	on submitted in this document, and that information, I believe that the submitted
Name (Print)		Title	Le Trees
(1) POLICE AND FIRE DEPARTMENT — Ente Zip Code) or your local police and fire department.	er the respective artments in the	re phone numi e spaces belov	pers, names and addresses (including
POLICE DEPT Phone Number (11 ) 2336/ Name Address 6177 Mare 51  Address 6177 Mare 51  Municipality Address Zip	90 	Vame	FUANTE MO PORT ST
PACILITY EMERGENCY CONTACT Name  Name  Pacility Phone Number 374-850	Emerger		tle
NOTE: Make copies of this survey! The law recopy to your County Lead Agency, Local Eme Committee and your local police and fire departments agency and local committee address:	quires that your propercy Plann artments.	u send a ing	Return original to: RIGHT TO KNOW PROGRAM CN 405 Trenton, NJ 08625-0405

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before Reporting Period: January 1 - December 31, 1989 making photocopies of this page. FACILITY IDENTIFICATION AND SITE LOCATION C. Location Address 704 Dollanus Ave 19735700000 A NJEIN D. City State NJ F. Zip 07/65 CENTER SIFEL DAMCO B. Facility Name \_\_ **CHEMICAL DESCRIPTION** HAZARDS STORAGE CODES AND LOCATIONS Inventory (Ranges) Substance ACTIVENE Codes for all that apply. (Enter Codes, except Location(s); supply narrative.) (Enter Code) Container 70 Conditions 62 64 CAS No. 74-86-> DOT No. 1001 70 69 67 Max. Daily 🔼 Substance No. (if available) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Avg. Daily \_//\_ Location(s) MAINTENGS SHOP Percent 6/7 State G Davs Onsite 345 Trade Secret (Actual Number) (Check if claiming) ARGON Substance .... Container\_40 \_ Conditions OL CAS No. 7-140 -37 - 1 Max. Daily 11 DOT No/QOGT Location(s) RING MANUFICTURE Avg. Daily \_//\_ 0151 Substance No. (if available) \_ Percent 54 State 6 Days Onsite 365 Trade Secret (Code) (Code) (Actual Number) (Check il claiming) Substance Brake Fluin \_ Conditions 2 ' DOT No. LUS Max. Daily 10\_ Container ... CAS No. \_\_\_\_-\_-Location(s) GARAGE DEPT Substance No. (if available) 2178 Avg. Daily 10\_ Percent 60 State Trade Secret Davs Onsite 365 (Code) (Code) (Actual Number) (Check if claiming) Substance CARRON DICKIDE Container 40 Conditions 02 07 DOT No/Ci3+ CAS No 124 -38 - 9 Max. Daily \_'\_\_ Location(s) \_\_\_\_ C v - MANNE TANK Substance No (if available) \_\_\_\_\_\_\_\_\_ Avo. Daily \_\_\_\_\_ Percent & State & Davs Onsite 3 4 5 Trade Secre! Code. Code Actue: Number. Check if claiming: Substance FERRO S META TURN NG Container 77 Conditions 21 27 DOT No.2743 Max Daily \_\_\_\_ CAS No \_\_\_\_\_\_ Location(s) Substance No. of availables Avg. Daily ..... Percent Gode State Code Trade Secret Days Onsite 36.5 Achrei Number Check if dlaming) Substance GALLA Container Inditions Max Daily \_\_\_\_ Avg. Daily 3 Substance No. of available Percent 62 State -Trade Secret Days Onsite 3 ... Code Code Actual Number Check I sterming: MEIL Substance \_ Container Conditions DOT No. 493 

Max Daily .... Avo Daily \_\_

Days Onsite 34. Actual Numbers

Substance No. III available: Percent &C State L.

Trade Secret

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Page 2 of 3

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION	
A. NJEIN	C. Location Address
	D. City NEWME E. State A/J F. Zip O7

	<del>~</del>	· · · · · · · · · · · · · · · · · · ·	
CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance PAINTS  CAS No DOT No. 1263  Substance No. (if available) Substance No. (if available) Trade Secret (Code) (Code) (Check if claiming)	(Codes for all that apply.)	(Enter Code) Max. Daily Avg. Daily Days Onsite 365 (Actual Number)	[Enter Codes, except Location(s); supply narrative.]  Container 47 Conditions 01, 01  Location(s) F1 AMMARIE STERRE 51.0
Substance   PROPSUL= CAS No.   24 -98 - 6   DOT No. 1997 Substance No. (if available)   1594 Percent 60   State 6   Trade Secret   (Check if claiming)	<u>69.70</u>	Max. Daily //	Container 40 Conditions 02 04  Location(s) Out the prointing 51100
Substance X/1  CAS No. 1320-20- DOT No! 3c7  Substance No. (if available) 2014  Percent 60 State 6 Trade Secret (Check if claiming)	<u>70</u>	Max. Daily / \( \tau \) Avg. Daily \( \tau \) Days Onsite \( \tau \) (Actual Number)	Container Conditions C
Substance ADHESIVES  CAS No DOT No2067  Substance No (if available) 3022  Percent 60 State 5 Trade Secret (Check if claiming)		Max. Daily 13 Avg. Daily 3 Days Onsite 265 (Actual Number)	Container 41 Conditions 01 07 Location(s) STassee Asign
Substance ADNESINES  CAS No DOT No. 1/32  Substance No (if available) 206 >  Percent 60 State Trade Secret [] (Check / Claiming)	<u> 20 </u>	Max. Daily / △ Arg Daily / / Days Onsite ※ ≤ :Actual Number	Container 46 Conditions 7
Substance ANTI RESE  CAS No DOT No 242  Substance No (if available)  Percent State L Trade Secret Check if claiming:		Max. Daily 3 Aug. Daily 4 Days Onsite (2)	Container 42 Conditions 2 Conditions 2
Substance DOT No 270 Substance No. (if available) 26 5	7c	Max. Daily 3 Avg. Daily 12 Days Onsite 265	Container 55 Conditions 2 Location(s) 55 Conditions 2

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional lorms. Please print or type all responses. Complete sections A-F before

Reporting Period: January 1 - December 31, 1989

aking photocopies of this page.	•			Neporting renoc. va	indary ( Odobinos )
COLUTY IDENTIFICATION AND SIT	E LOCATION	-	. دس	THE COURSE AST	•
en 19735700000			ocation Address	54 0020Mcs 455	State NJ F. Zip C.
Facility Name CENTRAL STE	22 min Ci			STORAGE COD	ES AND LOCATIONS
CHEMICAL DESCRIPTION	ON	<u>HAZARDS</u>	Inventory (Ranges) (Enter Code), Max. Daily 19 Avg. Daily 15	(Enter Codes, except Le	Conditions
	<u> </u>		Days Onsite	Localion(e)	
SubstanceO	-	<u> </u>	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container	Conditions,
Substance CAS No Chestance No. (if available)	Check if claiming)		Max. Daily Avg. Daily Days Onsite	Location(s)	Conditions
Substance  CAS No  Substance No. (if available	OOT No		Max. Daily Avg. Daily Days Onsite	Location(s)	
Percent State Code.  Substance CAS No Substance No (if avariable) Percent State State Gode.	OOT No		Max Daily Avg Daily Days Onsite	Container	_ Conditions
Substance CAS No Substance No (if available) Percent State	andreas Constitution	•	Max Daily	: conation:s:	Conditions
Substance CAS No. Substance No (if available)	DOT No		Max Daily Avg. Daily Days Onsite	Cantainer	
State State	Hade Secret		(Actual Number)	_1	

## ATTACHMENT 2

## WELL SEARCH DATA

## CENTRAL STEEL DRUM 1/2 MILE RADIUS WELL SEARCH

SITE			1	I	DISTANCE TO	TOTAL DEPTH	STATIC WATER	SCREENED
NO:	OWNER	ADDRESS:	WELL#	USE	SITE(ft.)	(ft.)	LEVEL(ft.)	INTERVAL(ft.)
A A	IMPERIAL URBAN	NEWARK, N.J.	OW-3	М	1500	19	NR	9-19
^	RENEWAL ASSOCIATES					1		
В	TEXACO USA	DOREMUS AVE.	49	М	500	13.5	3.33	3-13.5
	12///05 55/1	NEWARK, N.J.	1					
	TEXACO USA	DOREMUS AVE	50	М	500	13.5	3.15	3-13.5
	,22,100 0011	NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	51	М	500	13.5	3.15	3-13.5
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	.52	М	500	13.5	3.25	3-13.5
• [		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	53	M	500	13.5	3.15	3-13.5
		NEWARK, N.J.						0.40
	TEXACO USA	DOREMUS AVE	54	М	500	13	3	3-13
		NEWARK, N.J.	<u> </u>					3-13
	TEXACO USA	DOREMUS AVE.	55	М	500	13	3.25	3-13
		NEWARK, N.J.	1					3-13
	TEXACO USA	DOREMUS AVE.	56	М	500	13	2.9	3-13
:		NEWARK, N.J.					0.00	3-13
	TEXACO USA	DOREMUS AVE	57	М	50 <u>0</u>	13	3.08	3.13
1	;	NEWARK, N.J.	ļ				0.65	3-10
	TEXACO USA	DOREMUS AVE	58	М	500	10	3.65	3-10
		NEWARK, N.J.	<u> </u>				0.5	3-10
	TEXACO USA	DOREMUS AVE	59	М	500	10	3.5	3-10
		NEWARK, N.J.	1			<u> </u>		L

## NOTES:

- M MONITORING WELL
- O OBSERVATION WELL
- R RECOVERY WELL
- **NR NOT REPORTED**

SITE			I		DISTANCE TO	TOTAL DEPTH	STATIC WATER	SCREENED
NO.	OWNER	ADDRESS	WELL#	USE	SITE(ft.)	(ft.)	LEVEL(ft.)	INTERVAL(ft.)
1	TEXACO USA	DOREMUS AVE.	60	М	500	11	3.65	3-11
ŀ		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	61	М	500	11	3.9	3-11
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	62	М	M 500 11	11	4.15	3-11
	7	NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	63	М	500	11	4.25	3-11
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	64	М	500	11	3.42	3-11
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	65	М	500	13.5	3.25	3-13.5
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	66	М	500	13.5	3	3-13.5
ŀ		NEWARK, N.J.					· · · · · · · · · · · · · · · · · · ·	
	TEXACO USA	DOREMUS AVE	67	М	500	. 11	3.33	3-11
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE.	70	M	500	11	0.5	3-11
İ		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	71	М	500	11	2.25	3-11
		NEWARK, N.J.						
	TEXACO USA	DOREMUS AVE	72	М	500	11	3.25	3-11
		NEWARK, N.J.	1					
	TEXACO USA	DOREMUS AVE.	73	М	500	11	2.33	3-11
		NEWARK, N.J.						

NOTES:

M - MONITORING WELL

O - OBSERVATION WELL

R - RECOVERY WELL

SITE				<del> </del>	515-111-1			
NO.	OWNER	ADDRESS	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DISTANCE TO	TOTAL DEPTH	STATIC WATER	SCREENED
	TEXACO USA	DOREMUS AVE.	WELL #	USE	SITE(ft.)	(ft.)	LEVEL(ft.)	INTERVAL(ft.)
		i	74	M	500	11	3:15	3-11
С	TENNECO OIL CO.	NEWARK, N.J.		II		·		
	, vermess oil co.	NEWARK, N.J.	MW-1	М	2000	10	0	0.5-10
1	TENNECO OIL CO.							
	ENAMESO OIL CO.	NEWARK, N.J.	MW-2	М	2000	10.5	4	0.5-10.5
l	TENNESS OF SE	<u> </u>	_ [				·	
1	TENNECO OIL CO.	NEWARK, N.J.	MW-3	M	2000	10.5	6	0.5-10.5
D	M. V. P. O. O. I.		<u> </u>				ĺ	
, ,	McKESSON	DOREMUS AVE.	MW-6	0	1100	12	NR	9-12
<del></del>	ENVIROSYSTEM CO.	NEWARK, N.J.	.11				<u>.</u>	<u>-</u> .
	McKESSON	DOREMUS AVE.	MW-7	0	1100	16	NR	13-16
	ENVIROSYSTEM CO.	NEWARK, N.J.	1 1					10-10
J	McKESSON	DOREMUS AVE	MW-8	0	1100	16	NR	13-16
	ENVIROSYSTEM CO.	NEWARK, N.J.	1 1	ľ				13-10
	McKESSON	DOREMUS AVE.	MW-9	0	1100	18	NR	40.40
	ENVIROSYSTEM CO.	NEWARK, N.J.	1				- IND	13-18
	McKESSON	DOREMUS AVE.	MW-10	0	1100	18		
	ENVIROSYSTEM CO.	NEWARK, N.J.			1100	10	NR:	13-18
1	McKESSON	DOREMUS AVE	MW-1:1	0	1100	18		
	ENVIROSYSTEM CO.	NEWARK, N.J.		١,	1,00	1,0	NR	13-16
	McKESSON	DOREMUS AVE	MW-12	0	1100	46		
	ENVIROSYSTEM CO.	NEWARK, N.J.		~	1100	16 <sup>-</sup>	NR	13-18
	McKESSON	DOREMUS AVE	MW-13	0	1100		`	
	ENVIROSYSTEM CO.	NEWARK, N.J.	13177-13	٦	1100	18	NR	13-18
OTES:						<u> </u>		

M - MONITORING WELL

O - OBSERVATION WELL

R - RECOVERY WELL

SITE			1		DISTANCE TO	TOTAL DEPTH	STATIC WATER	SCREENED
NO.	OWNER	ADDRESS	WELL#	USE	SITE(ft.)	(ft.)	LEVEL(ft.)	INTERVAL(ft.)
,,,,,,	McKESSON	DOREMUS AVE	PW-1	R	1100	1:8	5	13-18
	ENVIROSYSTEM CO.	NEWARK, N.J.	·					
E	AMERADA HESS CORP.	DOREMUS AVE.	MW-1	М	1800	15	4.71	5-15
		NEWARK, N.J.	,					
	AMERADA HESS CORP.	DOREMUS AVE.	MW-2	M	1800	15	NR	5-15
ŀ		NEWARK, N.J.					<u> </u>	
	AMERADA HESS CORP.	DOREMUS AVE.	MW-3	М	1800	12	1:31	1.5-12
ļ		NEWARK, N.J.				<u></u>		1-10
	AMERADA HESS CORP.	DOREMUS AVE.	MW-4	М	1800	10	1.5	r•10
		NEWARK, N.J.						1-10
	AMERADA HESS CORP.	DOREMUS AVE	MW-5	М	1800	10	1.5	1-10
		NEWARK, N.J.		<u> </u>				1-10
	AMERADA HESS CORP.	DOREMUS AVE	MW-6	. М	1800	10	1.5	i i∙ i:O
	F.	NEWARK, N.J.						1-11
	AMERADA HESS CORP.	DOREMUS AVE.	MW-7	М	1800	11	3.35	1-11
		NEWARK, N.J.			·			1-10
I	AMERADA HESS CORP.	DOREMUS AVE	MW-8	М	1800	10	2.1	. I€+1-U
		NEWARK, N.J.				·	1.6	1-11
	AMERADA HESS CORP.	DOREMUS AVE	MW-9	М	1800	11	1.6	1-11
		NEWARK, N.J.					1.65	1-11
1	AMERADA HESS CORP.	DOREMUS AVE	MW-10	М	1800	11	I65	1-11
<u> </u>		NEWARK, N.J.					AID.	3-5
F	KOPPERS CO. INC.	NEWARK, N.J.	PN-1A	М	1100	5	: NR	3-5
		!		<u>_</u>				

## NOTES:

M - MONITORING WELL

O - OBSERVATION WELL

R - RECOVERY WELL

SITE					DISTANCE TO	TOTAL DEPTH	STATIC WATER	SCREENED
NO.	OWNER	ADDRESS	WELL#	USE	SITE(ft.)	(ft.)	LEVEL(ft.)	INTERVAL(ft.)
10.	KOPPERS CO. INC.	NEWARK, N.J.	PN-1B	М	1100	-5	NR	3-5
	KOPPERS CO. INC.	NEWARK, N.J.	PN-1C	М	1100	15	NR	13-15
	KOPPERS CO. INC.	NEWARK, N.J.	PN-2A	ŀM	1100	5	NR	3-5
	KOPPERS CO. INC.	NEWARK, N.J.	PN-2B	М	11.00	10	NR	8-10
	KOPPERS CO. INC.	NEWARK, N.J.	PN-2C	М	1100	15	ŅR	13-15
G	TIDEWATER	NEWARK, N.J.	MW-3	М	1200	9	NR	3-9
	BAILING CORP. TIDEWATER BAILING CORP.	NEWARK, N.J.	MW-4	M	1.200	13	NR/	3-13
н	CBS URBAN RENEWAL CORP.	NEWARK, N.J.	CBSW1	М	1800	22	14.5	7-22
	CBS URBAN RENEWAL CORP.	NEWARK, N.J.	CBSW2	М	1800	20	1,1.5	7-20
	CBS URBAN	NEWARK, N.J.	CBSW3	М	1800	15	8.42	3.5-15
	RENEWAL CORP.  CBS URBAN	NEWARK, N.J.	CBSW4	М	1800	15	7.33	3.5-15
_	RENEWAL CORP.  CBS URBAN  RENEWAL CORP.	NEWARK, N.J.	CBSW5	М	1800	15	8.25	3-15

### NOTES:

M - MONITORING WELL

O - OBSERVATION WELL

R - RECOVERY WELL

11/80

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

	7/16777
PERMIT NO	2610223

APPLICA	ATION NO	
	255	<b>7</b> .7

	WELL RECO	RD COUNTY ESSE	<b>5</b> ⊀
	T (001 D 0)		٠. و
1.	OWNER Imperial libertenewaldssoc. ADDA	IESS YO. BOX 282 allandule	Kautase
	Owner's Well NoSURF.	ACE ELEVATION	Fee
2.	LOCATION Howark, ~(5		7.7
	DATE COMPLETED 9015 DRILLER		
4.	DIAMETER: Topinches Bottominch	TOTAL DEPTH [9]	F10
5.	CASING: Type Diet	neter lnches Length_	<u>/0/</u> F#
6.	CASING: Type DO Size of Opening Diam	neter Inches Length_	191 Fee
	Range in Depth Feet Geologic	•	
		Fet	
7	WELL FLOWS NATURALLY Gallons per minute at		
•.	Water rises to Feet above surface	Part soore springer	
		Yield Gallons per minute	
Φ.		Feet below surface	
	Pumping level feet below surface after		
		Gals, per min, per ft. of drawdown	n
		How measured	
_	Observed effect on nearby wells		
₽.	PERMANENT PUMPING EQUIPMENT		
	Type Mfrs. Name _		
	Capacity G.P.M. How Driven		
		Footpiece in well Fo	MT.
	Depth of Air Line in well Feet Type of Meter on	4	ches
10.	. USED FOR	OUNT SAVORON Gallons I	·
11	. QUALITY OF WATER	Meximum Gellons (	Deily
• •	-	Sample: Yes No	
	Terre Cole	o/ Temp	et.
	. LOG Toke details on book of short or an aspertite short. If electric log was made	Are semples available?	
13.	SOURCE OF DATA BOTING SOG		

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

14. DATA OBTAINED BY WORLYON GEOVER

JOB LOCATION: Newark, N.J.				WA		FOOT OF	F JERSEY	( AVENUI 413 I.J. 07303	-	·	SHEET 1 OF1 LOCATION Newark, N.J. HOLE NO. OW-3 LINE & STA. OFFSET	
ш.			FTFT. C					STÄRT: _2		*	COUND ELEVATION = 1000 STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY STORY S	
SAI	PLER 0	. D	Mud_ 1. D 1. D								HAMMER FALL CASING 24" SAMPLER 30"	
O SURFACE	CASING BLOWS PER FOOT	SAMPLE	SAMPLE DEPTHS ELEV. / FEET	SAMPLE	RECOVE RY	BILOWS PI ON SAME	PLER	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH	FIE	LD IDENTIFICATION  OF  SOILS  REMARKS	
					,,,,,							
-10-			No Samples								÷	
									0'-19'		cellaneous fill, Wood, ers, Brick, Concrete	
-20-												
-												
- 30-												
	le Engine						Drill			Mike	Kurzynowski	<u></u>

Form DWR- 138 11/80

# STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO 2009871-7

APPLICATION NO. 20-23-173

COUNTY ESSEX

## WELL RECORD

1.	OWNER TEXPLO USA ADDRESS /10 DEZANCE Y ST. NEZUPE,
	Owner's Well No. 49 SURFACE ELEVATION (Above mean see level)
2.	LOCATION EAST OF TANK No. 1
3.	DATE COMPLETED 11-24-86 DRILLER CARL KLEPPER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 13.5 Feet
5.	CASING: Type PYC Diameter 4 Inches Length 3 Feet
	SCREEN: Type Size of Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening Opening O
	Range in Depth     Top Feet   Geologic Formation   Flyer   Science   Feet
_	Tail Piece: Diameter Inches Length Feet
7.	WELL FLOWS NATURALLY Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date VIN Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	
	Type _ / Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR MCNITOZING AMOUNT  AMOUNT  Average Gallons Daily  Maximum Gallons Daily
11.	QUALITY OF WATER HYDRICOIZREN SIMERE Sample: Yes No X
	Taste Odor Color Temp of.
12.	LOG SETTE SPICET  Are samples available? VET  (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
	SOURCE OF DATA
14.	DATA OBTAINED BY STEVEN MULLER Date 11-26-86

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2609872-5

APPLICATION NO. 26-23-173

COUNTY ESSEX

1.	OWNER TEXACO USA ADDRESS 210 DEZANOLEY ST. NEWARK
	Owner's Well No. 50 SURFACE ELEVATION Feet
2.	LOCATION ENST OF THUK NO. 1
3.	DATE COMPLETED 11-24-86 DRILLER CALL KLEPPER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 13 5 Feet
5:	CASING: Type PC Diameter 4 Inches Length 3 Feet
6.	SCREEN: Type PVC Size of Opening OSC Diameter 4 Inches Length 10 Faet
	Range in Depth { Top Feet   Geologic Formation RIVER Bottom Feet
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY C Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date 10/P Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed offers an appelluments
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
9.	
9.	PERMANENT PUMPING EQUIPMENT:  Type _ / / Mfrs. Name
9.	PERMANENT PUMPING EQUIPMENT:  Type
9.	PERMANENT PUMPING EQUIPMENT:         Mfrs. Name
10.	PERMANENT PUMPING EQUIPMENT:  Type
10. 11.	PERMANENT PUMPING EQUIPMENT:  Type

~			•	0	~	_
н	-	и.	•	×	KS	•

26.23.1

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE

445 BROOK AVENUE DEER PARK, NY 11729 (516) 586-4900 26-4871

SOIL DIVISION

n	011	1	ERS		 _		00
u	nu	_L	Ens	3 6	_U	L	Uu

HOLE NO. 49 \$50
HOLE NO. 49 \$50

PROJECT TEXACO USA NEWARK
910 DELANCES ST.

Sto. EDST OF TONK NO I

Offset \_\_\_\_\_

Date Began 11-24-86 Completed 11-24-86

Ground Elev. \_\_\_\_\_ G. W. Elev. \_\_\_\_

Casing O.D. 4 Hammer

O.D. 3 Wt. 40 Fall 30"

Sampler 1.D. 2'z"
Length 24"

Diamond Bit No. Horrow Stem

Sheet of Sheets for Hole No.

	A.M. P.M.		DEPTH			
DATE			CASING	WATER		
11-24	*49		.13'-6"	34"		
11-24	<sup>#</sup> 50		13-6"	3-4"		
<u></u>						
Casing fill	ed with wat	er? <u>.                                     </u>				
Depth wa	sh water add	ded?				
Artesian?		<del></del>	* * * * * * * * * * * * * * * * * * * *			
Height of	head?	·	<del></del>	•		
What depth?						
Driller: CARL KLEPPER						

$\triangle$										
	49 Hided	Blows On Casing	Sample Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS	Depth (	Blows On Casing	Sample Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS
	0				BLECKTOP & STONE	0				BLOCKTOP-STONE
V	1				ET. Burn Sons &					CT BROWN SAWA
	٢				Samuela	2				A Spanie
	3	554	<b>3</b>	49-3	Somoloran	3	حکک	27	N-30-3	& Sonoy clay
	4				₭.	4				
	5				The Brown organic	5		<u> </u>		<u> </u>
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## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2407873 - 3

APPLICATION NO. 24-23-173

COUNTY 6554

1.	OWNER TEXACO USA ADDRESS 910 DELMICOY ST. NOWINGE
	Owner's Well No. 5   SURFACE ELEVATION (Above meen see level)
2.	LOCATION EPST OF TANK NO. 1
3.	DATE COMPLETED 11-24-36. DRILLER CARL KLEPPER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 13-5 Feet
5.	
6.	SCREEN: Type PVC Size of Opening C3C Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation PIVER BCC
	Tail Piece: DiameterInches LengthFeet
<b>7</b> .	WELL FLOWS NATURALLY C Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date // Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
0.	USED FOR MCNITCRING AMOUNT AMOUNT AMOUNT Gallons Daily
1.	QUALITY OF WATER HYDROCCHERON CONTR. Sample: Yes No X
	Sample: Yes No
	Taste Odor Color
2.	Taste Odor Color Tame
<b>2.</b> 3.	Color Color Temp OF.  LOG SUPPLE SHUET Are samples available? Are samples available? VES  Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  SOURCE OF DATA

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. ZCC)514-1

APPLICATION NO. ZCC - 23-173

COUNTY CSSCX

1.	OWNER TEXAL USA	ADDRESS 910 DELANKEY	ST. NEWARK
	Owner's Well No. 52	SURFACE ELEVATION	Feet
2.	LOCATION NORTHEDST CF TRUK		mean sea levely
3.	DATE COMPLETED 11-24-86 DRIL	LER CAPL KLEPPER	
4.	DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPTH	13 5 Fret
5.	CASING: Type PVC	Diameter 4 Inches	Length 5 Feet
6.	SCREEN: Type PVC Size of Opening .C3C	Diameter 4 Inches	Length / Fret
	Range in Depth	Geologic Formation RIVER BO	<u> </u>
	Tail Piece: Diameter Inches	LengthFeet	
7.	WELL FLOWS NATURALLY NO. Gallons per minute at	Feet above surfa	ace
	Water rises to Feet above su	rface	
8.	RECORD OF TEST: Date ~/~	Yield Gallons per	minute
	Static water level before pumping	Feet below surface	
	Pumping level feet below surface afte	r hours pur	nping
	Drawdown Feet Specific Cap	eacity Gals, per min, per ft, o	of drawdown
	Drawdown Feet Specific Cap How pumped		
	-	How measured	
9.	How pumped	How measured	
9.	How pumpedObserved effect on nearby wells	How measured	
9.	Observed effect on nearby wells PERMANENT PUMPING EQUIPMENT:	How measured	
9.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. 1  Capacity G.P.M. How Driven	How measured	R.P.M
9.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. 1  Capacity G.P.M. How Driven	Name H <sub>2</sub> P,	R.P.M
	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. I  Capacity G.P.M. How Driven  Depth of Pump in well Feet D	Name  HiP.  epth of Footpiece in well  Meter on Pump Siz	R.P.MFeet
10.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. I  Capacity G.P.M. How Driven  Depth of Pump in well Feet D  Depth of Air Line in well Feet Type of I  USED FOR COLOR	Name  H,P.  epth of Footpiëce in well  Meter on Pump  AMOUNT  AMOUNT  Maximum	R.P.M Feet  TeInches  Gallons Daily  Gallons Daily
10.	How pumpedObserved effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type	Name  H,P  epth of Footpiece in well  Meter on Pump Size  AMOUNT {     Average     Maximum      Color Temp	R.P.M Feet  TeInches Gallons Daily Gallons Daily  To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To
10.	How pumpedObserved effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type	Name  H,P  epth of Footpiece in well  Meter on Pump Size  AMOUNT {     Average     Maximum      Color Temp	R.P.M Feet  TeInches Gallons Daily Gallons Daily  To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To
10. 11.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. I  Capacity G.P.M. How Driven  Depth of Pump in well Feet  D  Depth of Air Line in well Feet  Type of I  USED FOR CAPACA COO  QUALITY OF WATER CAPACA COO  COO  COO  COO  COO  COO  COO  C	Name  H,P.  epth of Footpiece in well  Meter on Pump  AMOUNT  Maximum  Cable Sample: Yes Note Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample: Yes Note Sample	R.P.M Feet  Te Inches  Gallons Daily  Gallons Daily  To OF.

نج _				· · · · · · · · · · · · · · · · · · ·
DATE	TIN		DEP.	WATER
	A.M.	P.M.	CASING	<del>†                                    </del>
11-24	<sup>#</sup> 51		1310"	3-21
11-24	a 52		13'-6"	3-3"
			<u> </u>	<u> </u>
			<u> </u>	
-			Ý	
Casing fill	ed with wat	er? <u>-</u>		
Depth wa	sh water add	ded?		
Artesian?		<del> </del>	······································	<del></del>
Height of	head?		<del></del>	
What dep	th?	· · · · · · · · · · · · · · · · · · ·	<u></u>	
Driller:	Coe	_ KL	SIPPER_	

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729 (516) 586-4900

26-987

26-4874

SOIL DIVISION

DRILLERS FIELD LOG

36.23.17

HOLE NO. 51 852

HOLE NO. JIEJZ
PROJECT TEXACO USA NEWARK
Sto. EDST & NOTHERST OF TONK NO. 1
Offset
Date Began 11-24-86 Completed 11-24-86
Ground Elev G. W. Elev
Casing I.D. Hammer
0.D. 3" Wt. 140 Fall 50"  Sampler 1.D. 2½" Length 24"
Diamond Bit No. Horen Stom

of\_\_\_\_Sheets for Hole No.\_

•	· .			
Depth Depth On Cesting Sample Number Or 2	FIELD IDENTIFICATION AND REMARKS .5-1.0	Depth Cl Blows On Casing	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 5 4 5 0 5 0 5 7 8 9 11 12 13 5 TN 51 14	DK GROY DEGONC CLOY & SICT. HYDROCIPERON.	6 5 0 555 <sup>#</sup> . 7 8 9 10 11	TN 52-6	BLOCK-TOP, BLUESTONE  CT. DK. BEOWN  FINE - CORESE  STOND, SONDY CLOY  DK BEOWN - GEDY  ORGANIC CLOY &:  SILT.  MyDECKERON  ODOR.

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2609875-0
APPLICATION NO. 26 -23 -173
COUNTYESSEX

1.	1. OWNER TEXACO USA ADDRESS 910 DELANC	EYST. NEWARK
	Owner's Well No SURFACE ELEVATION	,
2.	2. LOCATION LESTALENST CE TANK NO. 1	(Above meen see level)
3.	3. DATE COMPLETED 11-25-86 DRILLER CALL KLET	pre_
4.	4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPT	H
	5. CASING: Type PC Diameter 4 Inches	
	6. SCREEN: Type PVC Size of Opening -U-30 Diameter 4 Inches	
:	Range in Depth { Top Feet Geologic Formation Piver }	· ·
	Tail Piece: Diameter Inches LengthFeet	
7.	7. WELL FLOWS NATURALLY Callons per minute at Feet about	ove surface
	Water rises to Feet above surface	
8.	8. RECORD OF TEST: Date Yield Gall	ons per minute
	Static water level before pumping Feet below st	urface
	Pumping level feet below surface after ho	urs pumping
	Drawdown Feet Specific Capacity Gals, per min.	per ft. of drawdown
	How pumped How measured	
	Observed effect on nearby wells	
9,	9. PERMANENT PUMPING EQUIPMENT:	
	Type V/S Mfrs. Name	
	Capacity G.P.M. How Driven H.P	R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well	Feet
	Depth of Air Line in well Feet Type of Meter on Pump	
10.	O. USED FOR MÜNITCZING AMOUNT AMOUNT Maximum	Gallons Daily
. •.	Maximum	Gallons Daily
11.	11. QUALITY OF WATER Sample: Yes	No
	Taste Odor Color	Temp oF
2.	Are samples availa  (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)	bie? VEZ
3.	13. SOURCE OF DATA	,

Fort Di/R: 138

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO ZGOGETO -S

APPLICATION NO ZG-23-173

COUNTY ESSEX

#### WELL RECORD

1	OWNER TEXPLO USA ADDRESS 910 DEZANIEY ST. NEWBER
	Owner's Well No. 54 SURFACE ELEVATION Good To STATE Fee:
2.	LOCATION NOTHERST OF THEY NO !
3.	DATE COMPLETED 11-25-86 DRILLER COIL KLEPPET
	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 13 Feet
5.	CASING: Type PVC Diameter 4 Inches Langth 3 Fee:
6.	SCREEN: Type PVC Size of Opening OSO Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation RIVER RCG
	Tail Piece: Diameter Inches LengthFeet
<b>7</b> .	WELL FLOWS NATURALLY Callons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date (Control of the Control of the
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Name
	Capacity G.P.M. How Driven H.P R.P.M.
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR MONITORING Gellons Deily  Maximum Gellons Deily
11.	
	Toro
2.	LOG SCPARATE  Are semples evailable?    Color
3.	SOURCE OF DATA
14,	DATA OBTAINED BY STEVEN MULLER Den 12-2-86

*						
	TIN	1E	DEPTH			
DATE	A.M.	P.M.	CASING	WATER		
1-25	*53		.13-6"	3-2"		
11-25	<b>=</b> 54		13'-0"	3-0"		
			•			
Casing fill	ed with wat	er? <u>-</u>				
Depth wa	sh water add	ded?				
Artesian?		<del></del>				
Height of	head?					
	th?	•				
Driller:	CAR	<i>U</i> 1.	TPP-72			

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729

26 4575 26-4876

(516) 586-4900

SOIL DIVISION

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DRILL	E06	CIEI	$\mathbf{a}$	100
UNILL	En3	FIEL	_U	LUU

SOLE BIVICION
HOLE NO. 53454 26.23.113
HOLE NO. 53854
PROJECT TEXACO USA NONDEX.  910 DELANCEY ST.
Sto. NOOTHERST OF TONK NO. 1
Offset
Date Began 11-25-86 Completed 11-25-86
Ground Elev G. W. Elev
Casing O.D. 4" Hammer
O.D. 3" Wr. 140 Fall 30" Length 24"
Diamond Bit No. However STEM

of\_\_\_\_Sheets for Hole No.\_

•— • ————									
Depth V	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS	Depth 4	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 4 5 0 7 8 9 10 11 12	Sage Sul	ты Ты	63-8 63-8	BLEXTUB-BLUSTONE  LT. BROWN FINE—  CONSSE SAND  DE-BROWN SANDY  LCAM  DX-BROWN STONOY  ORGANIC CLOY	0 1 2 3 4 5 0 7 3 9 10 11 12	\$ <u>\$</u> \$\$	2 2	54-2 54-2	BLUE SERVE  DX BROWN BLORK SONDY CLOY, SIGTY SOND WI DEBRI.  DX BROWN HIGHLY ORGENIL SILTY CLOY W/ DEBRI  DX BROWN - LTGRY. ORGENIL CLOY & CLOY SOND
				•					

Fort DWR: 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO ZGC9934-9

APPLICATION NO ZG 23-173

COUNTY ESSEX

#### WELL RECORD

۱,	OWNER TEXACO USA		SI- NOUSER
	Owner's Well No. 55		
2.	LOCATION NOTHERST OF TONK		W mask pas NVe//
	DATE COMPLETED 11-25-96 DRI		
4.	DIAMETER: Top 4 inches Bottom	inches TOTAL DEPTH	13Fset
5.	CASING: Type FY L	Diameter Inches	Length 3 Fee:
6.	SCREEN: Type PYC Size of Opening -CSC	Diameter 4 Inches	Length 10 Feet
	Range in Depth		ac G
	Tail Piece: DiemeterInches		
<b>7</b> .	WELL FLOWS NATURALLY No. Gallons per minute		rface
•	Water rises to Feet above		
8.	RECORD OF TEST: Date N/N		
	Static water level before pumping	Feet below surface	•
	Pumping levelfeet below surface af	ter hours po	mping
	Drawdown Feet Specific C	apacity Gals, per min, per fi	. of drawdown
	How pumped	How measured	
	Observed effect on nearby wells		
_			
9.	PERMANENT PUMPING EQUIPMENT:		
9.	Type N/A Mfre		
9.			
9.	Type // Mfrs  Capacity G.P.M. How Driven		R.P.M.
9.	Capacity G.P.M. How Driven  Depth of Pump in well Feet	н.р	R.P.M
10.	Capacity G.P.M. How Driven  Depth of Pump in well Feet	Depth of Footpiece in well	R.P.M Feet SizeInches
	Capacity G.P.M. How Driven _  Depth of Pump in well Feet  Depth of Air Line in well Feet Type or	H.P  Depth of Footpiece in well  f Meter on Pump  AMOUNT   Average  Maximum	R.P.M Feet  SizeInches Gallons Daily Gallons Daily
	Capacity G.P.M. How Driven _  Depth of Pump in well Feet  Depth of Air Line in well Feet  USED FOR C.D.T.C.U.D.C.	H.P	R.P.M Feet SizeInches Gallons Daily Gallons Daily No _X
11.	Type LA Mfre  Capacity G.P.M. How Driven _  Depth of Pump in well Feet  Depth of Air Line in well Feet  USED FOR COURSE  QUALITY OF WATER COURSE	H.P	R.P.MFeet  SizeInches Gallons Daily Gallons Daily No np OF,
11. 12.	Type LAND Mfre  Capacity G.P.M. How Driven _  Depth of Pump in well Feet  Depth of Air Line in well Feet  Type of MCNITCUMS  QUALITY OF WATER Odor  LOG SEPARTE SHEET	H.P	R.P.MFeet  SizeInches Gallons Daily Gallons Daily No np OF,

أيو	·					
0.475	TIA	AE	DEPTH			
DATE	A.M.	P.M.	CASING	WATER		
11-25	<sup>#</sup> 55		. 13-1"	3'-3"		
	·					
	¥					
Casing fill	led with wat	er? <u>-</u>	•			
Depth wa	sh water add	ted?	······································			
Artesian?			- 7 - 1. ·			
Height of	head?					
What dep	th?					
Driller: _	CARL		EPPER	<b>-</b>		

## FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729 (516) 586-4900 SOIL DIVISION

DRILLERS FIELD LOG

HOLE NO55
PROJECT TEXACO USA CONDRX.  910 DELANCEY ST.
SIO. NOTHEDET OF TANK NO. 1
Offset
Date Began 11-25-86 Completed 11-25-86
Ground Elev G. W. Elev
Casing O.D. 4" Hammer
O.D. 31 Wt. 140 Fall 30" Length 24"
Diamond Bit No. Horrow STON
SheetofSheets for Hole No

Depth Cossing Brows on Sample Number O.5 21.0	FIELD IDENTIFICATION AND REMARKS	Depth	Blows On Casing	Sampla Number	BLOWS ON SAMPLER 0.5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 4 555 TN 65-4 5 6 7 8 555 TN 55-8 9 10 11 12 555 TN 55-13 13	BLOCKTOP, BLUESTONE  DK BREWN, LT BLOCK  FILL SOND W/  DEBEL, RESSLE  LT-DK BROWN  SONDY FILL,  SONDY CLOY  ORGONIC CLOY  4 SILT W/ FILL  MISTERIAL					

Fort DWR- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER REJOURCES

PERMIT NO 260935-7

APPLICATION NO 26-23-173

COUNTY ESCET

#### WELL RECORD

1.	OWNER TEXACO USA ADD	PRESSO DEZPINCEY	ST- NEWDEK
	Owner's Well No. 56 SUR		
	LOCATION EPST OF TONK NO 1		
3.	DATE COMPLETED 11-Z6 +460 DRILLER	CARL KLEPA	<u>37.</u>
	. DIAMETER: Top 4 inches Bottom 4 in		1 114 4
5.	CASING: Type FVL	emercer 4 Inches	Length Feet
6.	. SCREEN: Type PVC Size of Opening セジン Di	emeter 4 Inches	Length 10 Feet
	Range in Depth		<u>364</u>
	Tail Piece: DiameterInches Lengt	hFeet	
<b>7</b> .	. WELL FLOWS NATURALLY No. Gallons per minute at	Feet above s	urface
	Water rises to Feet above surface		
8.	RECORD OF TEST: Date LA	Yield Gallons	për minute
	Static water level before pumping	Feet below surfa	<b>C2</b>
	Pumping level feet below surface after	· .	
	Lawbing least iset pelow solution after	nouns	Pumping
	Drawdown Feet Specific Capacity	Gals, per min, per	ft. of drawdown
	Drawdown Feet Specific Capacity  How pumped	Gals, per min, per	ft. of drawdown
	Drawdown Feet Specific Capacity	Gals, per min, per	ft. of drawdown
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT.	Gals, per min, per	ft. of drawdown
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name	Gals, per min, per	ft. of drawdown
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby well's  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven	Gals, per min, per	ft. of drawdown
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby well's  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of	Gals, per min, per How measured  H.P.  of Footpiecs in well	ft. of drawdown  R.P.M.  Feet
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby well's  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of	Gals, per min, per How measured  H.P.  of Footpiece in well  on Pump	R.P.M.  Feet Sizeinches
9.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth  Depth of Air Line in well Feet Type of Meter	Gals, per min, per How measured  H.P.  of Footpiece in well  on Pump  Average	Feet SizeInchesGallons Daily
	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth  Depth of Air Line in well Feet Type of Meter  D. USED FOR COUNTONING.	Gals, per min, per How measured  H,P.  of Footpiece in well  on Pump  Average  Meximum	F. of drawdown  R.P.M.  Feet  SizeInches  Gellons Deily  Gellons Daily
	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby well's  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Air Line in well Feet Type of Meter  D. USED FOR COLORDON COLORDON COLORDON  1. QUALITY OF WATER HYDROCARSON COLORDON COLORD	Gals, per min, per How measured  H,P.  of Footpiece in well  on Pump  Average  Meximum  Sample: Yes	F. of drawdown  R.P.M.  Feet  SizeInches  Gallons Daily  No No
11.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Air Line in well Feet Type of Meter  D. USED FOR COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN	Gals, per min, per How measured  H.P.  of Footpiece in well  on Pump  Maximum  Sample: Yes  Color To	Fact SizeInchesGallons DailyGellons Daily NoOF,
11.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby well's  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Air Line in well Feet Type of Meter  D. USED FOR COLORDON COLORDON COLORDON  1. QUALITY OF WATER HYDROCARSON COLORDON COLORD	Gals, per min, per How measured  H.P.  of Footpiecs in well  on Pump  Maximum  Sample: Yes  Color  To	Fact SizeInchesGallons DailyGellons Daily NoOF,
11. 12.	Drawdown Feet Specific Capacity  How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT.  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Air Line in well Feet Type of Meter  Duratity OF WATER MYDROCARS COX.	Gals, per min, per How measured  H.P.  of Footpiecs in well  on Pump  Maximum  Sample: Yes  Color  To	Fact SizeInchesGallons DailyGellons Daily NoOF,

Form Divm. 138

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO ZULY 326-5

APPLICATION NO ZU-23-173

COUNTY ESSEX

1.	OWNER TEXPLO USP	ADDRESS PLO DE	RANKY ST	Nilipa	<u>~</u>
	Owner's Well No. 57	SURFACE ELEVAT	ION	P	_Fee:
	LOCATION EAST OF TANK NO	<u> </u>			
3.	DATE COMPLETED 11-26-86 DRIL	LER Cher	KLEPPER	•	
4.	DIAMETER: Top 4 inches Bottom 4	inches T	OTAL DEPTH	13	
	CASING: Type PYC				
6.	SCREEN: Type PVC Size of Opening -030	Diameter 4	Inches	Length 10	Fee:
	Range in Depth   Bottom Feet			(C)	
	Tail Piece: DiameterInches				•
7.	WELL FLOWS NATURALLY C. Gallons per minute at		Feet above surfa	Ee .	
	Water rises to Feet above su				
8.	RECORD OF TEST: Date W/P	Yield	Galions per	minute	
	Static water level before pumping		Feet below surface		
	Pumping level feet below surface after	r	hours pum	ping	
	Drawdown Feet Specific Cap	ecity G	als, per min, per ft. o	f drawdown	
	How pumped	How measure	d		
	Observed effect on nearby wells		<del></del>		
9.	PERMANENT PUMPING EQUIPMENT	·	•		
	Type N/A Mfrs.	Name			
	Capacity G.P.M. How Driven	н	.Р	R.P.M	
	Depth of Pump in well Feet D	epth of Footpiece in w	rell	Feet	
	Depth of Air Line in well Feet Type of i	Meter on Pump	Siz	tInches	
10.	USED FOR MONITORING	AMOUNT &	eximum	Gellons Deily Gellons Deily	
11,	QUALITY OF WATER HYDROCORROW SDOR		e: Yes N		
	Tarte Odor			· ·	
12.	LOG SEDPRATE SHEET				
		was made, places furnish	<b>609.</b> ]	7	
	SOURCE OF DATA		·		
14.	DATA OBTAINED BY STEVEN MULLER		Date 12-2	-856P	

- A	TIA	AE.	DEPTH			
DATE	A.M.	P.M.	CASING	WATER		
11-26	#57		137-01	2-11"		
11-26	<sup>4</sup> 57		13-0"	3-1"		
	•					
	•					
Casing fill	ed with wat	er?	•			
Artesian?						
	head?					
	th?					
	<del></del>					
Driller: _	CARL	- Ku	ADOR_			

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729

R PARK, NY 11729 (516) 586-4900 26 1935 ·

SOIL DIVISION

DRILLERS FIELD LOG

26.23.173

PROJECT TEXALO USA NEWARK

910 DELANCEY ST.

SIO. EAST OF TRUK NO. 1

Offset \_\_\_\_\_

Date Began 11-26-86 Completed 11-26-86

Ground Elev. G. W. Elev.

Casing O.D. 4 Hammer

0.D. 3" Wt. 140 Fall 30"
Length 24"

Diamond Bit No. House Stem

Sheet of Sheets for Hole No.

50 shoth	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0.5 5.1.0	FIELD IDENTIFICATION AND REMARKS	57 Depth	Blows On Casing	Sample Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	545	72	56-8 56-13	CLEY & HIGH SICT.	5 0 7 8 9	కకకో	2	57-3 57-0	ELECKTORE BUILDING  DE BROWN LTBLACK  FILL SOND & SONDY  CLOY & SICTY  DE BROWN SONDY  CLOY & SICTY  DE BROWN SONDY  CLOY ORGANIC  MOTTER  HYDROCARSON  ODUR
							, ,		• •

Form DivR- 138

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO ZGU9937-3

APPLICATION NO ZG-Z3-173

COUNTY ESSEX

1.	OWNER TEXACO USA ADDRESS QUO DELENCEY ST. NOWARK
	Owner's Well No. 58 SURFACE ELEVATION
2,	LOCATION SOUTH OF TONK No Z
3.	DATE COMPLETED 12-2-88 DRILLER CARL KLEPDER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 10 Feet
5.	CASING: Type PVC Diameter 4 Inches Length 3 Fee:
	SCREEN: Type PVC Size of Opening -030 Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation RIVER BCCS   Geologic Formation RIVER BCC
	Tail Piece: Diameter InchesFeet
7.	WELL FLOWS NATURALLY NC Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT
	Type W/h Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR MOUNT AMOUNT AMOUNT Gellons Daily
11.	QUALITY OF WATER 6000 Sample: Yes No X
	Tests Odor Color Temp 0F.
12.	LOG SUDARATE SHEET  Rive despite on back of short or an apparete short. If electric log was made, please furnish easy.)
	SOURCE OF DATA
14,	DATA OBTAINED BY STEVEN MULLER Date 12-7-86

Fort DiFR: 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

APPLICATION NO ZO-23 173
COUNTY EXCENT

#### WELL RECORD

1.	OWNER TEXACO USA ADDRESS 910 DEZANCEY ST. NEWPORK
	Owner's Well No. 59 SURFACE ELEVATION Fee:
	LOCATION POST OF TONK No. 7
3.	DATE COMPLETED 12-2-86 DRILLER CPOL KLEPPER
	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 10 Feet
	CASING: Type PyC Diameter 4 Inches Length 3 Feet
6.	SCREEN: Type PVC Size of Opening 030 Diameter 4 Inches Length 10 Fee:
	Range in Depth { Top Feet   Geologic Formation   RIVER BCG   Bottom Feet
	Tail Piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY 6 Gallons per minute at 6 Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date Vield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Neme
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR NONTORING AMOUNT AMOUNT Gellons Deily
11.	QUALITY OF WATER GUED No X
	Teste Odor Color Temp of.
12.	LOG SEFARATE SALET  Give compiles available? YES  Give compile on back of about or an apparent phone. If electric log user made, please familie easy.)
	SOURCE OF DATA
14.	DATA OBTAINED BY STEVEN MULLER Date 12-2-80

TIN	IE	DEPTH		
A.M.	P.M.	CASING	WATER	
* 58		. 10-0"	3-8	
<b>5</b> 9		10'-0"	3-6"	
•				
			A.M. P.M. CASING	

Casing filled with water?			<del></del>
Depth wash water added?	 		
Artesian?	 * - '	<u></u>	
Height of head?	 		
What depth?			

Driller: CDRL KUSPPER

## FENLEY & NICOL CO., INC. 445 BROOK AVENUE

445 BROOK AVENUE DEER PARK, NY 11729 (516) 586-4900 26 1937

SOIL DIVISION

DRILLERS FIELD LOG

26.23.17;

HOLE NO. 58 \$ 59

PROJECT		SA NEWACK
	AID DETEN	xey ST.
Sto. <u>Soci</u>	TH & EPST	of tour No. 2
Offset		
Date Begai	12-2-86	Completed 12-2-86
Ground Ele	٧	G. W. Elev
Çasing	0.D. 4"	
Sampler	0.D. 3" 1.D. 272"	Wt. 140 Fall 30"

Diamond Bit No. Haww Stem

Sheet of Sheets for Hole No.

Length 24"

58 Hideo	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS	Deptit	Blows On Casing	Sample Number	BLOWS ON SAMPLER	FIELD IDENTIFICATION AND REMARKS
0 1 3 4 5 6 7 8 7 10 11	S-C.	2	58-7 58-10	BLUESDINE  DX BEOM: BLOCK  FLL, SONO-SONOY  CLOY W/ DEBEI &  ORGANIC  MOTERIAL.	4 5	ડક્કું	2	59-7 59-10	BLUE STONE  DX BROWN  DX RED  SONDY CLAY &  CLOY LOSIN  DX BROWN  ORGANIC SILTY:  CLOY  CL

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2004939-0

APPLICATION NO. 26-23-173

COUNTY ESSEX

#### WELL RECORD

1.	OWNER TEXACO USA ADDRESS FILL DELANCEY ST. NEWARK
	Owner's Well No SURFACE ELEVATION (Above mean see (eyes)
2.	LOCATION EPST OF TONK NO. 8 (Above mean see level)
3.	DATE COMPLETED 12-2-86 DRILLER CARL KLEDDER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 11 Feet
5.	CASING: Type Diameter Inches Length Seet
6.	SCREEN: Type PVC Size of Opening BO Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation   River Rocal
	Tail Piece: Diameter Inches LengthFeet
Ż.	WELL FLOWS NATURALLY Callons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date V/F Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min. per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
0.	USED FOR MINITURE AMOUNT  AMOUNT  AMOUNT  Maximum Gallons Daily
1.	QUALITY OF WATER COCO Sample: Yes No X
	TasteOdorColor
2.	LOG SEPRENTE SHEET  (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  Are samples available?
<b>3</b> .	SOURCE OF DATA
4.	DATA OBTAINED BY STEVEN MULLER Date 12-2-8-6

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 260940-3

APPLICATION NO. 26-23-173

COUNTY ESSEX

1,	1. OWNER TEXACO USA ADDRESS 9	110 DELANCEY ST NEWARK
	Owner's Well No SURFACE EL	
2.	2 LOCATION NURTH OF TONK NO. 8	(Above mean sea level)
3.	3. DATE COMPLETED 12-2-86 DRILLER CA	er KLEPPER
4.	4. DIAMETER: Top 4 inches Bottom 4 inches	TOTAL DEPTH
5.	5. CASING: Type Diameter _	4 Inches Length 3 Feet
6.	6. SCREEN: Type Size of Opening BC Diameter _	4 Inches Length 10 Feet
	Range in Depth	
	Tail Piece: Diameter Inches Length	
7.	7. WELL FLOWS NATURALLY Callons per minute at	Feet above surface
	Water rises to Feet above surface	
8.	8. RECORD OF TEST: Date ~/ A Yield	Gallons per minute
	Static water level before pumping	Feet below surface
	Pumping level feet below surface after	hours pumping
	Drawdown Feet Specific Capacity	Gals, per min, per ft, of drawdown
	How pumped How m	neasured
	Observed effect on nearby wells	
9.	9. PERMANENT PUMPING EQUIPMENT:	
	Type N/P Mfrs. Name	
	Capacity G.P.M. How Driven	
	Depth of Pump in well Feet Depth of Footpie	
	Depth of Air Line in well Feet Type of Meter on Pump	
10.	10. USED FOR MOUNT	
11.	11. QUALITY OF WATER SCOOL	Sample: Yes No Y
		110
	Taste Odor Color	Temp 0E
12,	Taste Odor Color	Are samples available?
12. 13.	TasteOdorColor  12. LOG SEDARATE SHEET  (Give details on back of sheet or on separate sheet. If electric log was made, please  13. SOURCE OF DATA	Are samples available?

<u>.</u>						
	TIME		DEPTH			
DATE	A.M.	P,M.	CASING	WATER		
12-2	<b>*60</b>		.11-0"	3-8"		
12-2	ام		114"	3-11"		
			·			
			•			
			. ,			
Casing fill	ed with wat	er? <u>·          </u>	•			
Depth wa	sh water add	ded?				
Artesian?						
Height of	head?					
What depth?						

FENLEY & NICOL CO., INC.
445 BROOK AVENUE
DEER PARK, NY 11729
(516) 586-4900

26 4934 26 4940

SOIL DIVISION

DRILLERS FIELD LOG

26.33.173

HOLE NO GO COI
PROJECT TENDED USA NEWARK :  910 DELDINELY ST.
Sto. EBST OF TRUK No. 8 (60) NUCTH OF TRUK No. 8 (61)
NUTHOFTENK NO 8 (61)
Offset
Date Began 12-2-86 Completed 12-2-86
Ground Elev G. W. Elev
Casing O.D. 4" Hammer
O.D. 3" Wt. 140 Fall 30"  Sampler 1.D. 21/2" Length 24"
Diamond Bit No. Howar Stem
Sheet of Sheets for Hole No.

Depth O	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS	Oepth O	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0				Brazione	0				Brogonie
2 3 4 5 6 7 8 9 10 11 12	<i>৬</i>	TA	60-3	DEBELD SLTY SEND WICLEY & DEBELD WICLEY & DEBELD SENDY CLOY LITTLE ORGANIC METTER	078701	SSS	2	U-3 U-5 U-5	Dr BROWN SANDY CLBY W/ DERI PED CLDY.  Dr BROWN - Dr RED FINE SONTY OR RED VERY FINE DIC BROWN LT. GROY NO ORGANIC MOTTER
									•

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 260-3941-6

APPLICATION NO. 26-23 173

1.	1. OWNER TEXACO USA ADDRES	ss 410 DELDNIEY ST. NEWPER
	Owner's Well No SURFAC	CE ELEVATIONFeet
2.	2. LOCATION SOUTH OF OLD TONK A	UC 9 PREP
3.	3. DATE COMPLETED 12-2-20. DRILLER C	ARL KLEPPER
4.	4. DIAMETER: Top 4 inches Bottom 4 inches	TOTAL DEPTH
5.	5. CASING: Type PVC Diamet	
6.	6. SCREEN: Type PVC Size of Opening Diamet	ter 4 Inches Length 10 Faet
	Range in Depth { Top Feet Geologic F	Formation RIVER BCG
	Tail Piece: Diameter Inches Length	Feet
7.	7. WELL FLOWS NATURALLY C Gallons per minute at	Feet above surface
	Water rises to Feet above surface	
8.	8. RECORD OF TEST: Date N/P	field Gallons per minute
	Static water level before pumping	Feet below surface
	Pumping level feet below surface after	hours pumping
	Pumping level feet below surface after  Drawdown Feet Specific Capacity	
	·	Gals, per min, per ft, of drawdown
	Drawdown Feet Specific Capacity	Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:	Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity How pumped H  Observed effect on nearby wells	Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:	Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven	Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Fo	Gals, per min, per ft, of drawdown  How measured
10.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Fo  Depth of Air Line in well Feet Type of Meter on P	Gals, per min, per ft, of drawdown  H.P. R.P.M.  Dotpiece in well Feet  Pump Size Inches  Average Gallons Daily  Maximum Gallons Daily
10.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Fo  Depth of Air Line in well Feet Type of Meter on P	Gals, per min, per ft, of drawdown  H.P. R.P.M.  Dotpiece in well Feet  Pump Size Inches  Average Gallons Daily  Maximum Gallons Daily
10.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Formula Depth of Air Line in well Feet Type of Meter on Position.  USED FOR AMOUNT  11. QUALITY OF WATER CC.D	Gals, per min, per ft, of drawdown  H.P. R.P.M.  Dotpiece in well Feet  Pump Size Inches  UNT Average Gallons Daily  Maximum Gallons Daily  Sample: Yes No X
10.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Form Depth of Air Line in well Feet Type of Meter on P  10. USED FOR AMOUNT  11. QUALITY OF WATER Odor Color.	Gals, per min, per ft, of drawdown  H.P. R.P.M.  Dottpiece in well Feet  Pump Size Inches  UNT Average Gallons Daily  Maximum Gallons Daily  Sample: Yes No Temp. OF,
10. 11.	Drawdown Feet Specific Capacity  How pumped H  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven  Depth of Pump in well Feet Depth of Form Depth of Air Line in well Feet Type of Meter on P  10. USED FOR AMOUNT  11. QUALITY OF WATER Odor Color.	Gals, per min, per ft, of drawdown  H.P. R.P.M.  Dottpiece in well Feet  Pump Size Inches  UNT Average Gallons Daily  Maximum Gallons Daily  Sample: Yes No Temp. OF,

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2603942-83

APPLICATION NO. 26-23-173

COUNTY 15507

#### WELL RECORD

1.	OWNER TEXACO USA	ADDRESS FILL DELPNICEY	ST. NEWARK
	Owner's Well No	SURFACE ELEVATION	/ <i>O</i> Feet
2.	LOCATION EAST OF TANK NO. 1	(Abon	e mean sea level)
	DATE COMPLETED 12-2-86 DRILL		
4.	DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPTH	Feet
5.	CASING: Type PVC	DiameterInches	Length 3 Feet
	SCREEN: Type PVC Size of Opening .C3.0		_
	Range in Depth	eologic Formation RIVER R	
	Tail Piece: DiameterInches		
7.	WELL FLOWS NATURALLY Callons per minute at .		ace ~
	Water rises to Feet above surf		
8.	RECORD OF TEST: Date N/A		minute
	Static water level before pumping	Feet below surface	
	Pumping level feet below surface after	hours pun	nping
	Drawdown Feet Specific Capac	city Gals, per min. per ft. (	of drawdown
	How pumped		
	Observed effect on nearby wells		
9.	PERMANENT PUMPING EQUIPMENT:		
	Type Mfrs, Na	ame	
	Capacity G.P.M. How Driven		
	Depth of Pump in well Feet Dep		
	Depth of Air Line in well Feet Type of Me		
0.	USED FOR MONITCRING	AMOUNT	Gallons Daily Gallons Daily
1,	QUALITY OF WATER COCON	Sample: Yes N	io X
	Taste Odor	Color Temp.	of
2.	Give details on back of sheet or an separate sheet. If electric log with	Are samples available?	YES
3.	SOURCE OF DATA		
4.	DATA OBTAINED BY STEYEN MULLER	Date 12-2	L-8c

<u> </u>			¥	•					
	TIA	<b>AE</b>	DEPTH						
DATE	A.M.	P.M.	CASING	WATER					
12-2	#6Z		11-0"	4-24					
12-2	#63		11'-0"	4-3"					
	v								
			•						
Casing fill	led with wat	er?	•						
Depth wa	sh water add	ded?							
Artesian?		· · · · · · · · · · · · · · · · · · ·							
Height of	head?								
What dep	th?	· .							

# FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729 (516) 586-4900 SOIL DIVISION DRILLERS FIELD LOG

تاد	7941.
.16	1942

SION 173

HOLE	NO.	6	<u>2</u>	Ł	6	3
						_

	TEXACO USA NUZUARE ? 910 DEZANXUY ST
Sta. Sour	TOF TONK No. 10 (63)
Date Began	12-2-86 Completed 12-2-86
Ground Ele	v G. W. Elev
Casing	0.D. 4" Hammer
Sampler	0.D. 3" Wr. 140 Fall 30"  1.D. 212" Length 24"

Diamond Bit No. Horeon

Sheet \_\_\_\_ of \_\_\_ Sheets for Hole No..

Depth 2	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 5-1.0	FIELD IDENTIFICATION AND REMARKS	63 Thomas	Blows On Casing	Sampte Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
7 8 9	SSS	T4	62-3 62·C	BUESTONE  BUESTONE  DE ESD SONDE  SILT-CLOY  DE BEOWN  SONDY CLOY  W/RED CLOY	7 8 9	S65 <sup>1</sup>	\$T2	63-3	BLUESDOLE  DE RED - DE BRUND  SOUDY, SITY CLOY  W/ORGDNIC MOTTER  C DEPAH.
10	1282	້ານ 	62-11	FIDE SINY CLAY  WHOREGOING MOTHER	10 11 12	55.5	2	63-11	FINE SILTY CLOY DOCK BROWN.

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2609943 - 8

APPLICATION NO. 26 23-173

COUNTY ESSEX

1.	OWNER TEXACO USA ADDRESS 910 DELANCEY ST. NEWHOR
	Owner's Well No. CA SURFACE ELEVATION (Above mean sea level)
2.	LOCATION NEETH OF TANK NO 1
3.	DATE COMPLETED 12-2-86 DRILLER CARL KLEPPER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 1 Feet
5.	CASING: Type PVC Diameter 4 Inches Length 3 Feet
6,	SCREEN: Type PVC Size of Opening OSC Diameter 4 Inches Length 10 Free
	Range in Depth { Top Feet   Geologic Formation 21VER RCC
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY Callons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type N/A Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
0.	USED FOR MOUNT AMOUNT AMOUNT AMOUNT Gallons Daily
1.	QUALITY OF WATER CARCO Sample: Yes No
	Taste Odor Color
2.	LOG SEPRENTE SHEET  Are samples available? VET  Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
3,	SOURCE OF DATA
4.	DATA OBTAINED BY STEVEN MULLER Date 12-2-80

	TIN	IE	DÊP	ГН
DATE	A.M.	P.M.	CASING	WATER
12-2	#64		11-0"	3-5"
Casing fil	led with wat	er? <u>-</u>		
Depth wa	ish water add	ded?	-	
Artesian?	)			
Height of	head?		<u>-</u>	
	th?			

#### FENLEY & NICOL CO., INC. **445 BROOK AVENUE**

**DEER PARK, NY 11729** 

×6-4443

(516) 586-4900

SOIL DIVISION

26 23 123

DRILLERS FIELD LOG HOLE NO. CA

PROJECT TEXALO USA NEWNER 910 DELANCEY ST.

Sto. NORTH OF THUK NO. 1

Offset .\_\_\_

Date Began 12-2-86. Completed 12-2-86

Ground Elev. \_\_\_\_ G. W. Elev. \_\_\_

– Hammer Casing

Wr. 140 Fall 30" Sampler Length 24"

Diamond Bit No. Hollow Stem Sheet \_\_\_\_ of \_\_\_\_ Sheets for Hole No.\_

~										
	64 yideo	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0.5 .5.1.0	FIELD IDENTIFICATION AND REMARKS	Depth	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5:1.0	FIELD IDENTIFICATION AND REMARKS
	2				BLUESTONE					
	4507870112	SSS**	<i>T</i> D	64-3	DEEX GROWN  SONDY CLOY W/  RED CLEY MOTTLES  VETLY FINE DK  REGINN SONDY  SILT. VETLY  LITTLE ORIPHIL  INCREDESS WITH  DEPTH.					
			+			-		-		
þ.					1					•
Ŷ	<u> </u>		1						<u> </u>	

Fort DiVR- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

APPLICATION NO 26-23-173

#### WELL RECORD

1.	OWNER TEXACO UCA	ADDRESS 210 DELINE	EY ST. NEWARK
	Owner's Well No. 65	SURFACE ELEVATION	Fee:
	LOCATION SOUTH EDST OF TIPM	JK TE	
3.	DATE COMPLETED 12-3-830 DRIL		
4	DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPT	HFeet
5.	CASING: Type PYC	Diameter 4 Inches	LengthFeet
6.	SCREEN: Type PVC Size of Opening	Diameter 4 Inches	Length/OFeet
	Range in Depth { Top Feet   Bottom Feet	Geologic Formation	- Bug
	Tail Piece: Diameter Inches	LengthFeet	
7.	WELL FLOWS NATURALLY NO Gallons per minute a	et Feet abo	ve surface
	Water rises to Feet above s		•
8.	RECORD OF TEST: Date	Yield Gall	ons per minute
	Static water level before pumping	Feet below s	urface
	Pumping level feet below surface aft	er ho	urs pumping
	Drawdown Feet Specific Ca	pacity Gals, per min.	per ft. of drawdown
	How pumped		
	Observed effect on nearby wells		
9.	PERMANENT PUMPING EQUIPMENT.		
9.			
9.	PERMANENT PUMPING EQUIPMENT.	Name	
9.	Type Mfrs.  Capacity G.P.M. How Driven	Name	R.P.M
9.	PERMANENT PUMPING EQUIPMENT.  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name H.P.	R.P.M
	PERMANENT PUMPING EQUIPMENT.  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name H.P  Depth of Footpiece in well  Meter on Pump  AMOUNT {  Average  Maximum	R.P.M
	PERMANENT PUMPING EQUIPMENT.  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet Type of	Name H.P  Depth of Footpiece in well  Meter on Pump  AMOUNT {  Average  Maximum	R.P.MFeet SizeInches Gallons Daily Gellons Daily
11.	PERMANENT PUMPING EQUIPMENT.  Type A Airs.  Capacity G.P.M. How Driven Depth of Pump in well Feet  Depth of Air Line in well Feet  Type of  USED FOR A CONTORING  QUALITY OF WATER HYDROCAL COOR  Taste Odor	Name  H.P.  Depth of Footpiece in well  Meter on Pump  AMOUNT  Average  Maximum  Color  Color	R.P.M Feet SizeInches Gallons Daily Gallons Daily No Temp 0F.
11.	PERMANENT PUMPING EQUIPMENT.  Type A Airs.  Capacity G.P.M. How Driven Depth of Pump in well Feet  Depth of Air Line in well Feet  Type of  USED FOR A CONTORING  QUALITY OF WATER HYDROCAL COOR  Taste Odor	Name  H.P.  Depth of Footpiece in well  Meter on Pump  AMOUNT  Average  Maximum  Color  Color	R.P.M Feet SizeInches Gallons Daily Gallons Daily No Temp 0F.
11. 12.	PERMANENT PUMPING EQUIPMENT.  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name  H.P.  Depth of Footpiece in well  Meter on Pump  AMOUNT  Average  Maximum  Color  Color	R.P.M Feet SizeInches Gallons Daily Gallons Daily No Temp 0F.

FOOT DIVE- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER REJOURCES

PERMIT NO. 2604345-4
APPLICATION NO 26-23-175
- LEKE DEV

#### WELL RECORD

Owner's Well No. CO SURFACE ELEVATION  2. LOCATION SUCCESSIVE TO THE TOTAL DEPTH  3. DATE COMPLETED 12-3-86 DRILLER CARL KLEPPE  4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH  5. CASING: Type PVL  Diameter 4 inches	R
2. LOCATION SOUTHED STORE TOTAL DEPTH DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH Inches	R
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH  5. CASING: Type PVC Diameter 4 Inches	13·5 Fee:
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH  5. CASING: Type PVC Diameter 4 Inches	13.5 Feet
5. CASING: Type PVL Diameter 4 Inches	
_ , A.	Length 3 Fee:
6. SCREEN: Type Pyc Size of Opening 030 Diameter 4 Inches	Length /C Fee:
Range in Depth { Top Feet   Geologic Formation RIVER BC	ა <u>(</u> ე
Tail Piece: DiameterInches LengthFeet	
7. WELL FLOWS NATURALLY Gallons per minute at Feet above surf	ace
Water rises to Feet above surface	
8. RECORD OF TEST: Date 1/1 Yield Gallons per	r minute
Static water level before pumping Feet below surface	
Pumping level feet below surface after hours pur	<b>mping</b>
Drawdown Feet Specific Capacity Gals, per min, per ft.	
How pumped How measured	
Observed effect on nearby wells	
9. PERMANENT PUMPING EQUIPMENT.	•
Type Name	
Capacity G.P.M. How Driven H.P	
Depth of Pump in well Feet Depth of Footpiece in well	Feet
Depth of Air Line in well Feet Type of Meter on Pump S	•
	Gallens Daily
10. USED FOR MCNITOZING AMOUNT Meximum	Gallons Daily
10. USED FOR MCNITOZING AMOUNT AMOUNT Meximum  11. QUALITY OF WATER HYDROCOGRON COCZ Semple: Yes	
	No X
11. QUALITY OF WATER HYDROCOGROW COC Sample: Yes Term	No <u>X</u>
11. QUALITY OF WATER HYDROCOGRON COCT Sample: Yes	No <u>X</u>

	TIN	AE.	DEPT	Ή
DATE	A.M.	P.M.	CASING	WATER
12-3	465		13-67	3-3"
12-3	#65		13-6"	3'-0"
	•			
Casing fil	led with wa	ter?		
Depth wa	ish water ad	ded?		
Artesian?	·			
Height of	head?		·	
What dep	oth?			

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729

26-9944

(516) 586-4900

soil division 3.173

DRILLERS FIELD LOG .... = ... (25\$ Cala

HOLE NO. WY COP
PROJECT TEXACO USA NEWARK:
Sto. SOUTHEDET OF TRUK NO. 1
Offset
Date Began 12-3-86 Completed 12-3-86
Ground Elev G. W. Elev
Casing O.D. 4" Hammer
0.D. 3" Wt. 140 Fall 30"  Sampler 1.D. 212" Length 24"
Diamond Bit No. House Stew

O SAMPLER SAMPLER O S. S. S. S. S. S. S. S. S. S. S. S. S.	FIELD IDENTIFICATION AND REMARKS	Depth (C)	Blows On Casing	Sample	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 555 TN 65-3 4 5 6 7 555 TN 65-7 8	BLOCK-OP & BLUESTONE  DK BROWN - BLOCK  SONDY CLOY  W/ DEBRI	4 5			66-3 66-6	DK BROWN SONDY CLOY & ORGANIC MATERIAL & DEBRI
9 10 11 12 SSS*TN U5-12 13 14	SIET W/ ODER & FLOSTING PRODUCT.	10 11 9 12 13 14	38.5 P	2	66 - 11	OK BOOWN SILTY.  CLOY, W/ ORGANIC  MOTORIOL  HYDOOLDREUN  ODOR.

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 26-0346-Z

APPLICATION NO. 26-23-13

COUNTY ESSEX

1.	OWNER TEXACO USA	ADDRESS 910 DELANCES	/ ST. NEWARK
	Owner's Well No	SURFACE ELEVATION	Feet
2.	LOCATION NORTHEDST OF NEW	LUMPING RACK	DOVE MEAN SEE (EVEL)
3.	DATE COMPLETED 12-3-84 DRIL	LER CARL KLEPP	<u> </u>
4.	DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPTH_	Feet
5.	CASING: Type	Diameter 4 Inches	Length 3 Feet
6.	SCREEN: Type PYC Size of Opening 80	Diameter 4 Inches	Length 10 Fast
	Range in Depth	Geologic Formation RIVER	Boc
	Tail Piece: Diameter Inches	LengthFeet	
7.	WELL FLOWS NATURALLY Gallons per minute a	t Feet above s	urface .
	Water rises to Feet above su	irface	
8.	RECORD OF TEST: Date N/A	Yield Gallons	per minute
	Static water level before pumping	Feet below surfa	C8
	Pumping level feet below surface after	hours	pumping
	Drawdown Feet Specific Car	pacity Gals, per min, per	ft, of drawdown
	•	-	•
	How pumped Feet Specific Cap  Observed effect on nearby wells	How measured	•
9.	How pumped	How measured	•
9.	How pumped  Observed effect on nearby wells	How measured	
9.	Observed effect on nearby wells PERMANENT PUMPING EQUIPMENT:	Name	
9.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs.	Name H.P.	R.P.M
9.	How pumped	Name H,P, H,P, Pepth of Footpiece in well	R.P.MFeet
	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type	Name H.P. H.P. Meter on Pump H.P.	R.P.MFeet
10.	Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name  H.P.  Depth of Footpiece in well  Meter on Pump  AMOUNT  AMOUNT  Maximum	R.P.M. Feet SizeInches Gallons Daily Gallons Daily
10.	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type	Name  H,P,  Pepth of Footpiece in well  Meter on Pump  AMOUNT  Awerage  Maximum  Sample: Yes  Color  Te	R.P.M.  Feet  SizeInches  Gallons Daily  Gallons Daily  No empOF.
10. 11.	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type	Name  H,P,  Pepth of Footpiece in well  Meter on Pump  AMOUNT  Awerage  Maximum  Sample: Yes  Color  Te	R.P.M.  Feet  SizeInches  Gallons Daily  Gallons Daily  No empOF.
10. 11.	How pumpedObserved effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs.  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name  H,P,  Pepth of Footpiece in well  Meter on Pump  AMOUNT  Awerage  Maximum  Sample: Yes  Color  Te	R.P.M.  Feet  SizeInches  Gallons Daily  Gallons Daily  No empOF.

			•	
2475	TI	ME	DEPT	TH
DATE	A.M.	P,M.	CASING	WATER
12-3	# 47		11-0"	3'-4"
12-3	#68		11'-0"	3-5"
	w			
Casing fill	led with wa	ter? <u>'</u>	•	
Depth wa	sh water ad	ded?		
Artesian?	<del></del>		, , , , , -	
Height of	head?			
What dep	th?		· · · · · · · · · · · · · · · · · · ·	
Driller: _	CARI	_ 121	-FI-bas	<u> </u>

## FENLEY & NICOL CO., INC. 445 BROOK AVENUE DEER PARK, NY 11729

2 946 16 4947

(516) 586-4900

**SOIL DIVISION** 

DRILLE	RS FI	ELD	LOG
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26.23:173

HOLE NO. GIEGS
PROJECT TEXACO USA NOWNER.
Sto. WITHERST & SOUTHERST OF NEW LOADING RACK
Offset
Date Began 12-3-86 Completed 12-3-86
Ground Elev G. W. Elev
Casing I.D. Hammer
0.D. 3" Wt. 140 Fall 30"  Sampler I.D. 2'6"  Length 24"
Diamond Bit No. How Son  Sheet of Sheets for Hole No.

2				•						
	Depth	Blows On Casing	Semple Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS	Depth	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
	0				BLUESDING	0				BURSTONE
	2	<b>555</b>	<b>1</b>	67-3	FINE SILTY, SONDY	7 2	مجور	Ę	<i>∟8-</i> 3	SILTY SPND
	4-5			67-6	HIGH ORE THE	4 5			68-5	sonoy cusy w/ exp cusy, oeganics
	30 3	322	2	61-6	REEDS NOOL	200				7 DARK OF
2	10	SSS	. ]	67-11	GRESSES. HEBYY BOY, ODOR DURING	0 =	5SS#	2	68-10	HIGH CREGADIC
					/	12				•
Ī										•
										•
										•

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

APPLICATION NO. 26 23-173
COUNTY ESSEX

1.	OWNER TEXACO USA ADDRESS 910 DELDINGY ST. NEWDEX
	Owner's Well No. 70 SURFACE ELEVATION (Above meen see (ever))
2.	LOCATION NOZTH OF THE NEW LONDING RACK
	DATE COMPLETED 12-4-86 DRILLER CARL KLEPPER
4.	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 1/1 Feet
5.	CASING: Type PVC Diameter 4 Inches Length 3 Feet
6.	SCREEN: Type PC Size of Opening CSC Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation   Zivez Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_   Roc_
	Tail Piece: DiameterInches LengthFeet
Ź.	WELL FLOWS NATURALLY Callons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date W/A Yield Gallon's per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Pumping level feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
11.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type OP Mfrs, Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR NOTORING Gallons Daily  QUALITY OF WATER GOOD Sample: Yes No X  Taste Odor Color Temp. OF
11.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
11. 12. 13.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type OP Mfrs, Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR NOTORING Gallons Daily  QUALITY OF WATER GOOD Sample: Yes No X  Taste Odor Color Temp. OF

### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2609349-7

APPLICATION NO. 26-23-173

COUNTY ESSEX

			•
1.	OWNER TEXALL USA A	DORESS TO DELENCEY	ST. NEWARK
	Owner's Well No Si		
2.	LOCATION WEST CFTHE NEW LCIADIN	in Rack	mean sea level)
3.	DATE COMPLETED 12-4-80 DRILLE	R CARL KLEPDER	
4.	. DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPTH	II Fant
5.	. CASING: Type PVC	Diameter Inches	Length 3 Feet
6.	SCREEN: Type PVC Size of Opening 30	Diameter 4 Inches	Length /O Fact
	Range in Depth { Top Feet Geo	ologic Formation RIVER BC	
	Tail Piece: Diameter Inches Len	gthFeet	
7.	WELL FLOWS NATURALLY <u>LOC</u> Gallons per minute at		ice -
	Water rises to Feet above surface		
8.	RECORD OF TEST: Date N/	Yield Gallons per	minute
	Static water level before pumping	Feet below surface	÷
	Pumping level feet below surface after _	——— hours puri	ping
	Drawdown Feet Specific Capacit	γ Gals, per min, per ft, c	of drawdown
	How pumped	How measured	
	Observed effect on nearby wells		
9.	PERMANENT PUMPING EQUIPMENT:		
	Type V/P Mfrs. Nam	le	
	Capacity G.P.M. How Driven	H,Р,	R.P.M
	Depth of Pump in well Feet Depth	of Footpiece in well	Feet
	Depth of Air Line in well Feet Type of Mete		
10.	USED FOR MONITORING	AMOUNT Average	_ Gallons Daily
<b>11</b> ,	QUALITY OF WATER COCO	Sample: Vec N	_ V
	TasteOdor	Color -	-
12.	(Give détails on back of sheet or an separate sheet. If électric log was i	Are samples available?	Jes
13	SOurce of the Data	made, please furnish copy.)	
14	SOURCE OF DATA		·

D 4 7 5	TIN	ΛE	DEP	TH
DATE	A.M.	P.M.	CASING	WATER
12-4	<b>#</b> 70		11-0.	6"
12-4	#71		11-0"	2-3"
	<b>7</b>	<del> </del>		
	حر مدهرسی			
		,		
		-		
Casing fill	ed with wat	er? <u>·        </u>		<del></del>
Depth was	sh water add	ded?		<del></del>
Artesian?			- 1	
Height of	head?	·		
What dept	th?	•	· · · · · · · · · · · · · · · · · · ·	···

Driller: CHEL KLEPPER

#### FENLEY & NICOL CO., INC. **445 BROOK AVENUE** DEER PARK, NY 11729 (516) 586-4900

26-9948 XE 61949

SOIL DIVISION

26.23 173

DRILLERS FIELD LOG

PROJECT TEXACO USA NUWARK 910 DELANCY ST.

HOLE NO. 70 8.71

Sto. NEXTH & WEST OF NEW LUNDING

Offset\_

Date Began 12-4-86 Completed 12-4-86

G. W. Elev.\_\_\_\_

Casing

Wt. 140 Fall 30"

Sampler Length 24

Diamond Bit No. HOLLOW STEM Sheet \_\_\_\_ of \_\_\_ Sheets for Hole No.\_\_

•										•
	Depth 6	Blows On Casing	Sample Number	BLOWS ON SAMPLER	FIELD IDENTIFICATION AND REMARKS	7 Indea	Blows On Casing	Sample Number	BLOWS ON SAMPLER 0-5 .5-1.0	FIELD IDENTIFICATION AND REMARKS
	0				BLOCKED & BLUSSONE.	0				BLUESTONE
	1				PLT TAN FILL SOND					$\overline{}$
1	2_				W/Doex Brown Bog.	2				FINE SILTY CLAY
1	<u> </u>	<u>SS</u> 52	7	70-3			SSS	5	71-3	WITH ORGANIC
ŀ	4		<del> </del>		CLOY, RIVER	4	_			matter, eiver
'}	<u> </u>	Ccc #		70 (	(aby and	5				Bay -
ŀ	<del>\$</del>	733	10	70-6	BOG	4	222	12	71-6	-3-
V	B					B				
	9				T	9				
.[	10	SSS	7	70-10		10			<b>.</b>	
Ì.	11		,		,	1	555	2	71-11	6
ł		<u> </u>			• .	12				)
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ŀ		<u> </u>						•		•
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## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 2609350-1

APPLICATION NO. 26. 23-17-3

COUNTY 15557

1.	OWNER TEXACO USA ADDRESS NO DELANEY ST. :
	Owner's Well No. 72 SURFACE ELEVATION (Above meen see level)
2.	LOCATION WEST OF THE NEW LONDING PICK (Above mean see level)
3.	DATE COMPLETED 12-4-86 DRILLER CARL KLEPDER
4.	DIAMETER: Top inches Bottom inches TOTAL DEPTH
5.	CASING: Type PVC Diameter 4 Inches Length 3 Feet
	SCREEN: Type Pvc Size of Opening Sc Diameter 4 Inches Length 10 Fact
	Range in Depth    Top Feet   Geologic Formation Piver 306
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY OGAIIons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date LIVE Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Pumping level feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	•
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells   PERMANENT PUMPING EQUIPMENT:  Type MARCH G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR MONITORING Gallons Daily  Maximum Gallons Daily
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells   PERMANENT PUMPING EQUIPMENT:  Type MARCH G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR MONITORING Gallons Daily  Maximum Gallons Daily
11.	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Of Mrs. Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR MCNITCRING AMOUNT  AMOUNT  AMOUNT  Sample: Yes No Y  Taste Odor Color Temp OF
11.	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Of Mrs. Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR MCNITCRING AMOUNT  AMOUNT  AMOUNT  Sample: Yes No Y  Taste Odor Color Temp OF
11.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type MARCH G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR MONTORING AMOUNT  AMOUNT  AMOUNT  AMOUNT  Sample: Yes No X

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT'N	o. <u>260195</u> 1	-9
APPLICAT	10N NO. 26-23	-172
COLUNTY	BSW	

1,	OWNER TEXACO USA ADDRESS PIU DELDNICEY ST. NOWACK
	Owner's Well No. 73 SURFACE ELEVATION (Above mean sea level)
2.	LOCATION LOCATH WEST OF NEW LLADING RACK (Above mean see level)
3.	DATE COMPLETED 12-4-80 DRILLER CARL KLEPPER
4,	DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 11 Feet
5.	CASING: Type FVL Diameter 4 Inches Length 5 Feet
6.	SCREEN: Type PVC Size of Opening 350 Diameter 4 Inches Length 10 Feet
	Range in Depth { Top Feet   Geologic Formation River Bice   Rottom Feet   Compared to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY C Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date Yield Gallons per minute
	Static water level before pumping Feet below surface
-	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Mfrs. Name
	Capacity G.P.M. How Driven H.P. R.P.M.
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR MCNITCRING AMOUNT  AMOUNT  AMOUNT  AMOUNT  Maximum Gallons Daily
11	Maximum Gallons Daily
٠	QUALITY OF WATER GOODS Daily  Sample: Yes No
	CUALITY OF WATER COCT: Sample: Yes No X
	CUALITY OF WATER COCT: Sample: Yes No X
12.	QUALITY OF WATER GOCO Sample: Yes No X

72 yidag	Blows On Casing	Sample Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS	2 Depth 2	Blows On Casing	Sample Number	BLOWS ON SAMPLER 05 .5-1.0	FIELD IDENTIFICATION AND REMARKS
0				BUESTONE	0				Buesone
123450			72-6	DK BEENN SIDETY  SILTY CLAY  DK BEOWN SILTW/  DESSEL	4			13 - 3 73 - 5	DK- Blown Sonox SILTY CLDY LOW ORGANICS
7890112	<b>545</b>	2	72-10	River Bog High ORGDNIC METER	7 8 9 10 11 12	45°	<i>₩</i>	13-10	LOW ORGANIC RIVER BOG - :
				·					•

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT N	o. <u>ZLUAJ53-5</u>
APPLICAT	10N NO. 26-23-173
COLINE	isticos.

1.	OWNER TEXACO USA	ADDRESS 110 DELANCEY	ST. NEWARK
	Owner's Well No. 74	SURFACE ELEVATION	/C Feet
<b>2.</b>	LOCATION LE COTT LE NEW LEA	DING ROCK	Cove mean sea level)
3.	DATE COMPLETED 12-4-86 DRIL	LER CARL KLEPPER	
4.	DIAMETER: Top 4 inches Bottom 4	inches TOTAL DEPTH.	Feet
5.	CASING: Type PVC		
6,	SCREEN: Type PVC Size of Opening GAD	Diameter Inches	Length //> Fact
	Range in Depth    Bottom Feet   Feet		309
	Tail Piece: Diameter Inches		
7.	WELL FLOWS NATURALLY Callons per minute at		surface -
	Water rises to Feet above su		
8.	RECORD OF TEST: Date	Yield Gallon	s per minute
	Static water level before pumping		•
	Pumping level feet below surface afte	hours	pumping
	Barradina in		
	Drawdown Feet Specific Cap		-, -,-,-,-,-
	How pumped Feet Specific Cap		-, -,-,-,-,-
			-, -,-,-,-,-
9.	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:	How measured	
9.	How pumped	How measured	
9.	How pumped	Name H.P	R.P.M.
9.	How pumped	Name H.P	R.P.M
	How pumped	Name H.P. H.P. Hepth of Footpiece in well	R.P.M Feet SizeInches
10.	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. 1  Capacity G.P.M. How Driven  Depth of Pump in well Feet D.  Depth of Air Line in well Feet Type of M.  USED FOR C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C	Name H.P  Pepth of Footpiece in well  Meter on Pump  AMOUNT {     Average      Maximum	R.P.M Feet SizeInches Gallons Daily Gallons Daily
10.	How pumped	Name	R.P.M Feet Size!nches Gallons Daily Gallons Daily
10. 11,	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. I  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name  H.P.  Pepth of Footpiece in well  Meter on Pump  AMOUNT  Maximum  Sample: Yes  Color  T	R.P.M Feet SizeInches Gallons Daily Gallons Daily No OF.
10. 11,	How pumped  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. I  Capacity G.P.M. How Driven  Depth of Pump in well Feet	Name	R.P.M Feet SizeInches Gallons Daily Gallons Daily No OF.

0	<b>C1</b>	A.	۸	KG.

	TIN	1E	DEPT	ſĦ				
DATE	A.M.	P,M,	CASING	WATER				
12-4	#74		11-0"	3-2"				
			· ·					
,	•							
			·					
	·							
Casing fil	led with wat	er? <u>.                                    </u>						
Depth wa	sh water ad	ded?	· <u></u>	<del> </del>				
Artesian?				· <u>-</u>				
Height of	head?		·					
What dep	th?							
Driller: CARL KLEPPER								

#### FENLEY & NICOL CO., INC. 445 BROOK AVENUE **DEER PARK, NY 11729** (516) 586-4900

AL 4953

SOIL DIVISION

**DRILLERS FIELD LOG** 

26.23.113

HOLE NO. 74

PROJECT TEXALO USA NOBWARK: 910 DELANUEY ST.

Sto. NOTA WHET OF NEW LOADING

Offset\_

Date Began 12-4-8c Completed 12-4-8c

G. W. Elev. \_ Ground Elev.

0.D. 4" Casing

Wt. 140 Foll 30"

1.D. 21/2 Sampler Length <u>24'1</u>

Diamond Bit No. Horrow Stem

\_\_of\_\_\_\_Sheets for Hole No.

TH yidag	Blows On Casing	Sample Number	BLOWS ON SAMPLER	FIELD IDENTIFICATION AND REMARKS	Depth	Blows On Casing	Sample Number	BLOWS ON SAMPLER	FIELD IDENTIFICATION AND REMARKS
0 1 2 3 4 5	87° g	2 2	74-C	BLUESTONE  DK BERN, DK RED  SDUDY: SILTY  CLOY  LOW ORGANICS.  DK GROY SICTY  CLOY W/ MEDIUM  ORGANICS				05 .5:1.0	

#### New Jersey Department of Environmental Protection Division of Water Resources

#### MONITORING WELL RECORD

		`i~u`	Permit No.	26 2	Ò867	. <u></u>		
		Atlas	Sheet Coordi	nates 26	: 23 : 173			
OWNER IDENTIFICATION - Owner	TENNECO OIL COMP	ANY	· · · · · · · · · · · · · · · · · · ·		3			
Address	HOUSTON		ТХ	· <del></del>	-	<del></del>		
City		<del></del> _	State		Zip Code			
WELL LOCATION - If not the same as  County ESSEX	MunicipalityNEWARI	K CITY		Lot No.	Block No	i <del>0</del>		
Address <u>Stratus Amcquis</u>	_	•				<del></del>		
TYPE OF WELL (as per Well Permit C					d <u>06 /21 /90</u>	•		
Regulatory Program Requiring Well								
CONSULTING FIRM/FIELD SUPERVI	SOR (if applicable)	EEC	<del> </del>	· · · · · · · · · · · · · · · · · · ·	Tele. #			
WELL CONSTRUCTION		Depth to	Depth to	Diameter				
Total depth drilled 10 ft.		Top (ft.)	Bottom (ft.)	Diameter (inches)	Type and Materia	al l		
Well finished to 10 ft.	Inner Casing	0	6in	4	SCH 40 PVC			
Borehole diameter: Top 10 in.	Outer Casing (Not Protective Casing)	none		4	SCH 40 BVC			
Bottom 10 in.	Screen (Note slot size)		10	4	227 4277			
Well was finished: above grade	Tail Piece		10	*	SCH. 40PVC .0	<u>20 s</u> tot		
If finished above grade, casing	Gravel Pack	:9c.5	10	Ř	#2 Well Grave:	1		
height (stick up) above land surfaceft.	Annular Seal/Grout	0	9 0.5		Remainink Ben	tinite/		
Was steel protective casing installed?	Method of Grouting	Gravi	ty Place	ment		ment		
		GF	DLOGIC LOG	(Copie:	s of other geologic logs a	nd/or		
Static water level after drilling group Water level was measured using Ste				geophy	sical logs should be atta	ched.)		
Well was developed for 10minhous Method of development REFER	urs at <u>2</u> gpm		0-4' B1. Soil, Silt, Buck Fill 4-11' medium sands					
Was permanent pumping equipment in	nstalled? Yes 🔼 No	,	water at ground level					
Pump capacity <u>n/a</u> gpm								
Pump type:n/a								
Drilling Method Hollow Stem A	luger							
Drilling Fluid <u>none</u> Type	of Rig Diedrich D	50						
Name of Driller Allen Wilson			.*		•			
Health and Safety Plan submitted?	Yes X No							
Level of Protection used on site (circle of	one) None D C B A							
N.J. License No. 1278 WIL	SON DRILLING	.						
Name of Drilling Company			· <del></del>					
I certify that I have drilled the above State rules and regulations.	e-referenced well in acc	ordance with	n all well perr	nit requirer	nents and all applicable	•		

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Date \_august 14,1990

Driller's Signature

DWR-138 M 6/89

### New Jersey Department of EnviroDurces Division of Water Res

RECORD

WNER IDENTIFICATION - Owner	TENNECO OIL COMP. 1010 MILAM	ANY			K	Zip C	ode	
	HOUSTON			State				
ity	<del></del>		_	¹ No.	MW_2			
/ELL LOCATION - If not the same as	owner please give addres	ss. (	OWN	ers Wel	_ Lot No	<del>-30</del>	_ Block No5(	<del>)</del> —
ounty Essex					ark, NJ			
ddress Stratus Acquistic								
	•							
YPE OF WELL (as per Well Permit Ca			-					
tegulatory Program Requiring Well				Odse i		1 919.		
ONSULTING FIRM/FIELD SUPERVIS	SOR (if applicable)	EE						
VELL CONSTRUCTION	1	Depth to		Depth to	Diames.	' T)	pe and Material	
		Top (ft		Bottom (ft.)				
otal depth drilled 10.5 ft.		[From	lan	d surface]	(,	راسسل	_40 PV%c	
Vell finished to <u>10.5</u> ft.	Inner Casing	0		6 i <del>ოს</del> 0იან	2	1 ~~	- FVAU	<del></del>
orehole diameter:				O T MAXOS XX		<del></del>		
Top <u>100 8</u> in.	Outer Casing (Not Protective Casing)	none	<u> </u>				40 PVC.020	n ,
Bottom <u>styl 8</u> in.	Screen	5in		10.5	2	SCH.		
Vell was finished: above grade	(Note slot size)			10.5	<del></del>	30111		
X flush mounted	Tail Piece	none				<b></b>		
•	Gravel Pack	.5		10.5		#2 6	ravel-Well	
finished above grade, casing neight (stick up) above land	A side Cast							
surfaceft.	Annular Seal/Grout	<u> 10 x 0</u>		0.5	<u></u>	Benti	nite/cemen	<u>t</u>
Was steel protective casing installed	Method of Grouting	Gravity placement						
Yes X No	<u> </u>	(Copies of other geolog			er geologic logs an	d/or		
Static water level after drilling4	ft.		GE(	DLOGIC LO	geoph	ysical lo	gs should be attac	hed
Nater level was measured using St.				· · · · · · · · · · · · · · · · · · ·				-
Well was developed for 10 mirho	•			0-4	i Bi. s	oil.	Silt, buck	: f
•				• •	1' med		•	_
Method of development _centrif					er at 4			
Was permanent pumping equipment in	ISTAILED! LITTES LITT							
Pump capacityn/agpm								
Pump type:n/a				•				
Drilling MethodHollow Stem A	_	=0				•		
Drilling Fluid <u>none</u> Typ		<u> </u>		٠ ( ) ( )				
Name of Driller <u>Allen Wilso</u>		<del></del>		· ·				
Health and Safety Plan submitted?	☐ Yes 🕮 No						,	
Level of Protection used on site (circle	one) None D C B A	1						
N.J. License No. <u>1278</u>	ILSON DRILLING			•				
Name of Drilling Company			<u> </u>					
I certify that I have drilled the above	e-referenced well in ac	cordanc	e wi	th all well pe	rmit requir	ements	and all applicable	)

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

#### New Jersey Department of Environmental Protection Division of Water Resources

#### MONITORING WELL RECORD

Address	TIONNICCO OIL COME 1010 MILAM HOUSTON				Zip Code	
Oity	wner please give addres	ss. Owr	ner's Well No.	MW 3	Bloc	k No
TYPE OF WELL (as per Well Permit Cate Regulatory Program Requiring Well	egories) MONITORING ECRA		Date w Case I.	reil complete D. #	d 06 / 21	90
CONSULTING FIRM/FIELD SUPERVIS	OR (if applicable)	EEC			Tele. #	
WELL CONSTRUCTION  Total depth drilled 10.5 ft.		Depth to Top (ft.) [From lar	Depth to Bottom (ft.) nd surface]	Diameter (inches)	Type and	i Materiai
Well finished toft.	Inner Casing	0	5ins	2	SCH. 40P	VC
	Outer Casing (Not Protective Casing)	none				
Bottom <u>‡9</u> 8 in.	Screen (Note slot size)	6in	10.5	2	SCH 40P	vc . 0205
Well was finished: above grade flush mounted	Tail Piece	none				
f finished above grade, casing	Gravel Pack	<b>₽0.</b> 5	10.5		#2 Well	Gravel
height (stick up) above land surfaceft.	Annular Seal/Grout	0	.05		Bentinite	
Was steel protective casing installed?	Method of Grouting	Gravit	y Placer	nent	<b>3</b>	
Yes No Static water level after drilling 6	tt.	GE	OLOGIC LOG	(Copie geoph	s of other geolo ysical logs shou	gic logs and/or lid be attached
Water level was measured using Ster Well was developed for 10min hour Method of development Centrifin	s at gpm		0-4' 1 4-11'		l, Silt, ands	Buck Fil
Was permanent pumping equipment ins	talled? Yes 🗷 No		Water	at 6 <sup>m</sup>		
Pump type:n/a  Drilling Methodicllow Stem Aud  Drilling Fluid Type  Name of Driller Allen Wil:	of Rig Diedrich I	050	[2] [1] [m]		·	
Health and Safety Plan submitted?  Level of Protection used on site (circle or N.J. License No1278	Yes X No			. '		

White & Green · DEP Canary · Driller Pink · Owner Goldenrod · Health Dept.

Driller's Signature

COPIES:

### STATE OF NEW JERSEY CEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

ACC 231172

PERMIT NO. 26 5615

APPLICATION NO. 26 23 17 2

COUNTY ESSEX

1.	OWNER MCKESSON GUVIROSYSTEM CO ADDRESS GOO DOREMUS AVENUE NEWARK
	Owner's Well No. HW-6 SURFACE ELEVATION (Above mean sea level)
2	LOCATION 600 DOREMUS AVENUE, NEWARK, NJ (Above mean sea level)
3.	DATE COMPLETED 5/18/82 DRILLER HANDEK CORP
4.	DIAMETER: Topinches Bottominches TOTAL DEPTH   Feet
5.	CASING: Type PVC Diameter 4 Inches Length 9 Feet
6.	SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 3 Feet
	Range in Depth
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY NO Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date NO TEST Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	How pumped How measured  Observed effect on nearby wells
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type
9.	How pumped How measured
	How pumped How measured
10.	How pumped
10.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type
10.	How pumped
10.	How pumped
10. 11. 12.	How pumped

### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

APPLICATION NO. 26 23 17 2

COUNTY ESSEX

1	OWNER NCKESSON ENVIROSYSTEM CO ADDRESS 600 DOREMUS AVENUE NEWARK
•.	Owner's Well No. MW - 7 SURFACE ELEVATION (Above mean see level)
2	LOCATION GOD DOREMUS AVENUE NEWARK, NEW JERSEY
2.	DATE COMPLETED 5-20-82 DRILLER HANDEX CORP
.J. A	DIAMETER: Topinches Bottominches TOTAL DEPTH
5.	D:10
	SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 3 Feet
	Range in Depth { Top Feet   Geologic Formation Trb_ Qsd   Geologic Formation
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY LO Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date NO TEST Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR SAMPLING AMOUNT AMOUNT AMOUNT Amount Gallons Daily
11.	QUALITY OF WATER POOR Sample: Yes 1 No
	Taste LA Odor STRONG Color CREX PROTHY Temp. NA OF.
12.	LOG Are samples available? NO (Give details on back of sheet or an separate sheet. If electric log was made, please furnish copy.)
13.	SOURCE OF DATA PIELD
14.	DATA OBTAINED BY TECHNICIAN Date 5/14/82 to 6/2/82

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 26-5617

APPLICATION NO. 26 23 17 2

COUNTY ESSEX

1.	OWNER MCKESSON GNUIROSISTEM CO ADDRESS GOD DOREMUS AVENUE, NEWA	RH
	Owner's Wall No NW-8 SURFACE ELEVATION : Fee	
2.	LOCATION 600 DOREMUS AVENUE NEWARK NEW JERSEX	
3.	DATE COMPLETED 5/21/82 DRILLER HANDEX CORP	_
4.	DIAMETER: Top inches Bottom inches TOTAL DEPTH   6 Fed	et
5.	CASING: Type PVC Diameter 4 Inches Length 13 Fee	et
6.	SCREEN: Type PC Size of Opening 0.020 Diameter 4 Inches Length 3 Fee	et
	Range in Depth   Top Feet  Geologic Formation	_
	Tail Piece: Diameter Inches LengthFeet	
7.	WELL FLOWS NATURALLY NO Gallons per minute at Feet above surface	
	Water rises to Feet above surface	
8.	RECORD OF TEST: Date NO TEST Yield Gallons per minute	
	Static water level before pumping Feet below surface	
	Pumping level feet below surface after hours pumping	
	Tumping leter rect below surface area.	
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown	
	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown	_
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells	<del>-</del>
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells	_
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:	
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs, Name	-
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M	-
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown How pumped How measured Observed effect on nearby wells PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name	<del>-</del>
10.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR SAMPLING AMOUNT {	-
10.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR SAMPLING AMOUNT {	
10.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet  Depth of Footpiece in well Feet  Depth of Air Line in well Feet  Type of Meter on Pump Size Inches  USED FOR SAMPLING  AMOUNT  Average Gallons Daily  OUALITY OF WATER  POOR  Sample: Yes X No  Taste NA Odor STRONG  Color GRAY FROTHY Temp. NA of  LOGON BACK Are samples available? NO	
10. 11.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR SAMPLING AMOUNT  AMOUNT Average Gallons Daily  OUALITY OF WATER POOK Sample: Yes X No   Taste NA Odor STRONG Color CRAY FROTHY Temp. NA OF.  LOG ON BACK  (Give details an back of sheet or on separate sheet. If electric log was made, please furnish copy.)	
10. 11. 12.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet  Depth of Footpiece in well Feet  Depth of Air Line in well Feet  Type of Meter on Pump Size Inches  USED FOR SAMPLING  AMOUNT  Average Gallons Daily  OUALITY OF WATER  POOR  Sample: Yes X No  Taste NA Odor STRONG  Color GRAY FROTHY Temp. NA of  LOGON BACK Are samples available? NO	

### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

26.23 172 26-5618 PERMIT NO.

APPLICATION NO. 26 23 17

COUNTY SSEL

1.	OWNER NCKESSON ENVIROSYSTEM CO ADDRESS GOO DOREMUS AVENUE, NEWARK
	Owner's Well No SURFACE ELEVATION Feet
2.	LOCATION 600 DOREMUS AVENUE, NEWARK, NEW JERSEX
3.	DATE COMPLETED 5/25/82 DRILLER HANDER CORP
4.	DIAMETER: Topinches Bottominches TOTAL DEPTHFeet
5.	CASING: Type PVC Diameter 4 Inches Length 13 Feet
6.	SCREEN: Type PVC Size of Opening OOLO Diameter 4 Inches Length 5 Feet
	Range in Depth { Top Feet   Geologic Formation Trb Qsd   Geologic Formation Trb Qsd   Top Feet   Geologic Formation Trb Qsd   Geologic Formation Trb Qsd   Top Feet   Geologic Formation Trb Qsd   Geologic
	Tail Piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY HO Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type UONE Mfrs. Name
	Capacity G.P.M. How Driven H.P. R.P.M.
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR SAMPLING AMOUNT AMOUNT AMOUNT AMOUNT Gallons Daily
11,	QUALITY OF WATER POOK Sample: Yes No
	Taste NA Odor STRONG Color GRAY TROTHY Temp. NA OF.
12.	LOG BN BACK  (Give details on back of sheet or on separate sheet, if electric log was made along the first available?
13	(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  SOURCE OF DATA
	DATA CREATURE OF TECHNICIAN
• • •	Date

#### STATE OF NEW JERSEY 26-23. 17 2 26-5619 **DIVISION OF WATER RESOURCES**

APPLICATION NO. 26 23 17 7

1.	OWNER NCKESSON GUUROSYSTEM GO ADDRESS GOO DOREMUS AVE NEWARK
	Owner's Well No. HW- O SURFACE ELEVATION (Above mean sea level)
<b>7</b> 2.	LOCATION GOD POREMUS AVENUE LIEWARK NEW JERSEX
3.	DATE COMPLETED 5- 17-82 DRILLER HANDEX CORP
4,	DIAMETER: Topinches Bottominches TOTAL DEPTH(8Feet
	CASING: Type PVC Diameter 4 Inches Length 5 Feet
6.	SCREEN: Type PVC Size of Opening 0.020 Diameter 4 Inches Length 5 Feet
	Range in Depth      Top Feet
	Tail Piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY 40 Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date No TEST Yield Gallons per minute
	Static water level before pumping Feet below surface
ľ	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
Y	How pumped How measured
, 	
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	How pumped How measured Observed effect on nearby wells
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G,P.M. How Driven H,P R,P.M
9.	How pumped How measured
	How pumped
	How pumped
11.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type
11.	How pumped
11. 12.	How pumped

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

23. 17.26 PERMIT NO. 26	-5	665	, 
APPLICATION NO.	26	23	<u>1</u> 7.
COUNTY ESSE	<b>*</b>		

1.	OWNER MCKESSON ENVIROSYSTEM CO ADDRESS 600 DOREMUS AVENUE, NEWARK
	Owner's Well No
2.	LOCATION 600 DOREMUS AVENUE, NEWARK, NJ
3.	DATE COMPLETED 6/1182 DRILLER HANDER CORP
4.	DIAMETER: Topinches Bottominches TOTAL DEPTH   8Feet
5.	CASING: Type PVC Diameter 4 Inches Length 13 Feet
6.	SCREEN: Type PIC Size of Opening 0.020 Diameter 4 Inches Length 5 Feet
	Range in Depth { Top Feet   Geologic Formation Trb, Qsd   Bottom Feet
	Tail Piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY NO Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date NO TEST Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Mone Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
10.	USED FOR SAMPLING AMOUNT AMOUNT AMOUNT AMOUNT Gallons Daily
11.	QUALITY OF WATER POOR Sample: Yes X No
	Taste NA Odor STRONG Color GREN PROTHY Temp. NA OF.
12.	LOG ON BACK Are samples available? NO
12	(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  SOURCE OF DATA
	DATA OBTAINED BY TECHNICIAN Data 5-14 to 6-2-82

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO. 26-5666

APPLICATION NO. 26 23172

COUNTY ESSEX

#### WELL RECORD

1	OWNER MCKESSON GUVIRUSISTEM CO ADDRESS 600 DOREMUS AVENUE, NEWARK
••	Owner's Well No SURFACE ELEVATION Feet
2.	LOCATION GOD DOREMUS AVENUE, NEWARK NJ
3.	DATE COMPLETED 6-2-82 DRILLER HANDEX CORP
4	DIAMETER: Top inches Bottom inches TOTAL DEPTH Feet
5.	CASING: Type Pic Diameter 4 Inches Length 13 Feet
6.	SCREEN: Type Prc Size of Opening 0.020 Diameter 4 Inches Length 3 Feet
	Range in Depth { Top Feet   Geologic Formation Trb   Qsd
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY NO Gallons per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date NONE (NO TEST) Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name
9.	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name
9.	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
9.	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR AMOUNT {
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet
11	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  USED FOR SAMPLING AMOUNT Average Gallons Daily  OUALITY OF WATER POOR Sample: Yes No   Taste NA Odor STRONG Color CRAY FROTHY Temp. NA OF.  Are samples available? No

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO	6-5670
APPLICATION NO.	26-23-172
COUNTY_Esse	x

1.	OWNER McKesson Envirosystem Co. ADDRESS 600 Doremus Avenue, Newark, NJ
	Owner's Well No. MW-13 SURFACE ELEVATION N.A. Feet
2.	LOCATION 600 Doremus Avenue, Newark, New Jersey
	DATE COMPLETED 6-2-82 DRILLER Handex Corp.
4.	DIAMETER: Topinches Bottominches TOTAL DEPTH18
5.	CASING: Type PVC Diameter 4 Inches Length 13' Feet
	SCREEN: Type PVC Size of Opening 0 - 0 2 0 Diameter 4 Inches Length 5 Feet
	Range in Depth   Top Feet   Geologic Formation Trb, Qsd   Bottom Feet
	Tail Piece: Diameter Inches LengthFeet
7.	WELL FLOWS NATURALLY NO Gallon's per minute at Feet above surface
	Water rises to Feet above surface
8.	RECORD OF TEST: Date No test Yield Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name
9.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M
-	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet
10.	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE
10.	Drawdown Feet Specific Capacity Gals, per min. per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet  Depth of Footpiece in well Feet  Depth of Air Line in well Feet  Type of Meter on Pump SizeInches  USED FOR sampling
10.	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type NONE
10. 11,	Drawdown

r			T			
PROJ	ECT Foremost	McKesson		I CONTROLLER	PERMIT NO. 26-5671	
WELL	. NOPW	1	1	LNDEX Corp.	APPLICATION NO. 26-23-172	
	DRILLED 6-7-		Morganville	03 Ginesi Drive e, New Jersey 07751	COUNTY Essex	
	IC WATER LEVEL_		(20	1) 536-8500	USE recovery :	
	TION 600 Dor		ıe. Newar}	c. New Jerse		<del></del>
					O Doremus Avenue, Newark, N	J.T
						<u> </u>
ļ					THOD <u>cuttings</u>	
l				•		eet
ł						eet
SCRE	EN: Type <u>steel</u>	_Size of Openi	ng 0.020	Diameter 1	8 Inches Length 5' F	eet
GRA\	VEL PACK Ye	s_XNo		GRAVEL SIZE	#1	
SANI	TARY SEAL Ye	sX No	)	TYPE benton	nite GEOLOGIC FRM 0sd	<del></del> .
DEPTH BELOW SURFACE	SAMPLE NO CERTHS			DENTIFICAT OF SOILS REMARK		
				REMARK	S	
			0'-8' F	ILL, GRAVEL	and SAND, little-	-
				ilt, cinders		
					BLES, and SAND	
		]    -	9'6"-18'	Dark gray of trace very	organic SILT & CLAY, fine sand	
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DWR 1384

## STATE OF NEW LINES. SEPARTMENT OF ENVIRONMENTAL PROTECTION SMELON OF WATER RESOURCES

PERMIT NO 2010/508 APPLICATION NO 16037 BOUNTY ESSEX BOOKS 2102317:00

#### WELL RECORD

DEATIONM	Now Jeasey	Surface eli /			-, <u>/</u>
DATE COMPLETED9-19	-99 DI	AILLEN L	Corpor	acusa	
DIAMETER. Top 6 14 inches	Bottom &	14 inches	TOTAL DEPTH_	15	_F.
CASING. Type Schodule 4	, PVC	Diameter	2 inches	Length	
CREEN: Type PVC	Size of Opening O.O.	Zo Diameter	Z India	Length 10	
Renge in Depth Settem	Fort	Geologic Format	ion Wisconsin	Glasial Till	
Tail Piece: Diameter	Inches	Length	Foot		
vell flows naturally MA	Gallons per minus	le 81	Feet above su	rtace	
Weter mes to					
ECORD OF TEST Date	4	Yield_	Gallons :	er minute	
Static water level before sumpling			,		
SINTE MOLE, MAS SELDES SAMBIUS	· ————————————————————————————————————		- Last Seign Billige	•	
Pumping level	feet below surface (	ofter	houn s	umping	
Pumping level  Drawdown  Mow sumsed  Dourved effect on nearby wells  ERMANENT PUMPING EQUIPMS	Feet Selow surface ( Seetific )	Cabacity How me	Gals. per min. per f	umping	
Pumping level  Drawdown  How pumped  Observed effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type	Feet Sectific    ENT:	Cabacity How me	Gals. per min. per f	umping	
Pumping level  Drawdown  Mow sumsed  Dourved effect on nearby wells  ERMANENT PUMPING EQUIPMS	Feet Sectific (	Capacity Now me	Gals. per min. per f	umbing L. ef Brawdown	
Pumping level  Drawdown  How pumped  Observed effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type	Feet Sectific    ENT:  Mf  MA. How Driven	Cobecity Now me	hours s	umbing L. of StawSown	
Pumping level  Drawdown  How pumped  Dourved effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type  // A  Cepacity G.P	Feet Sectific (	Capacity Now me	Gals. per min. per f	R.P.M	
Pumping level  Drawsown  How sumsed  Doserved effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type  A  Capacity  G.P  Depth of Air Line in well  Depth of Air Line in well	Feet Seezific    ENT:  Mf  Mow Driven  Feet  Feet  Type	Capacity Now me	Gals. per min. per f resured  H.P.  in well  Average	R.P.M  Feet  SizeInches	
Pumping level  Drawsown  Mow sumped  Doserved effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type  N  Copacity  G.P  Depth of Air Line in well  SED FOR  Monitoring	Feet Seezific    ENT:  Mf  Mow Driven  Feet  Feet  Type	Capacity Now me Irs. Name Depth of Footpies of Meter on Pump	Gals. per min. per f resured  H.P.  in well  Average	R.P.M Feet SizeInches	
Pumping level  Drawsown  Mow sumped  Doserved effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type  N  Copacity  G.P  Depth of Air Line in well  SED FOR  Monitoring	Feet Seezific    ENT:  Mf  Mow Driven  Feet  Feet  Type	Depth of Footpies of Meter on Pump	Gals. per min. per f resured  H.P  in well  Average  Maximum  Lemple: Yes	R.P.M  Feet  SizeInches	
Pumping level  Drawdown  How pumped  Dourved effect on nearby wells.  ERMANENT PUMPING EQUIPMS  Type  // A  Capacity G.P  Depth of Pump in well	Feet Seezific    ENT:  Mf  Mow Driven  Feet  Feet  Type	Depth of Footpies of Meter on Pump  AMOUNT	Gals. per min. per f resured  H.P.  in well  Average	R.P.M  Feet  SizeInches	

ENDTE: Use other side of this sheet for additional information such as log of materials panetrates, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

WZ 1284 96

## STATE OF NEW JERSEY. SEPARTHENT OF ENVIRONMENTAL PROTECTION BIVEION OF WATER RESOURCES

PERUT NO XO	17579
CH HOITASUPEA	16037
BOUNTY	.SSEX
00000.d.l	23170

MERADA HE				
MW-				
BEATION _ NEWACK,	Vanil Verrand		· Ason	Mass 200 101011
ATE COMPLETED 9-19	-89	• +T c	or pera tiel	
IAMETER. Too 6 1/4 inches	Sales Sales			15
LAMETER. Too 2 / 1 menes	- Dic	. novi 10	TAL DEFIN	
ASING: Type schodule 4  CREEN: Type Pyc	0.070	Dismeter	_ Inches	Length
		Diameter	_ Insher	Length 10
Renge in Depth { Settom _	Foot Go	elogis Formation 🔟	Alisconsin	GLASIAI T.
Tail Piese: Diameter		ngm	Fort	
ELL FLOWS NATURALLY	Gallons per minute at _		_ Feet above surf	sct
Water mes to			÷	
ECORD OF TEST Date	/4	Yield	Galinos sos	Minute
Status water level before sumping				
Serve mate, seae, meine benibilit				
Pumping level	feet below surface after		Neurs sur	n <b>p</b> ing
Pumping level				_
Pumping level				_
Drawfown				_
Drawsown  Mow pumped  Datence effect on nearby wells.	Feet Specific Caboo			_
Drawdown  How pumped  Dounned effect on nearby wells .  RMANENT PUMPING EQUIPME	Feet Specific Cabac	How measured		_
Promoun	Feet Specific Capaci	How measured	s, per min, per ft,	ef drawdown
Promoun  Mon pumped  Downer effect on rearby wells .  RMANENT PUMPING EQUIPME  Type	Feet Specific Cabac  INT:  Mirs. Na  .M. How Driven	How measured  Measured  M.J	s, per min, per ft,	R.P.M.
Promoun	Feet Specific Cabac  INT:  Mirs. Na  .M. How Driven	How measured	s, per min, per ft,	R.P.M.
Promoun  Man pumped  Deserved effect on nearby wells .  RMANENT PUMPING EQUIPMS  Type	Feet Specific Cabac  INT:  Mirs. Na  .M. How Driven  Feet Depr	How measured  Measured  M.J	s, per min, per ft,	R.P.M.
Drawsown  Mew pumped  Doserved effect on nearby wells .  RMANENT PUMPING EQUIPMS  Type  N/A  Capacity  G.P  Depth of Pump in well  Depth of Air Line in well	Feet Specific Capaci INT:  Mirs. No.  M. How Driven Feet Depr	Mow measured  Mow measured  M.F.  Th of Footpiess in we	s, per min, per ft,	R.P.M Fee:
Drawsown  Mew pumped  Doserved effect on nearby wells .  RMANENT PUMPING EQUIPMS  Type  N/A  Capacity  G.P  Depth of Pump in well  Depth of Air Line in well	Feet Specific Capaci INT:  Mirs. No.  M. How Driven Feet Depr	Mow measured  Mow measured  Multiple of Factoriess in wester on Pump	s. per min. per ft.	R.P.M Fee:
Brandown  Man pumped  Doserved effect on nearby wells.  RMANENT PUMPING EQUIPMS  Type	Feet Specific Cabec  INT:  Mirs. No.  M. How Driven  Feet Depr  Feet Type of Mer	Mow measured  Mow measured  Multiple of Factoriess in we ser on Pump  AMDUNT  Ma	s. per min. per ft.	R.P.M Fee: Gallons Daily Gallons Daily
Description  Man pumped  Description rearry wells.  RMANENT PUMPING EQUIPMS  Type	Feet Specific Capaci INT:  Mirs. Na	Mow measured  Mow measured  Mos of Factoriess in we ter an Pump  AMDUNT  Ma  Semate	s. per min. per ft.	R.P.M
Drawsown  Mew pumpes  Deserves effect on nearby wells.  RMANENT PUMPING EQUIPMS  Type  MAC  Capacity  G.P  Depth of Pump in well  ED FGR  MON'TOR!  NALITY OF WATER  SILT	Feet Specific Capaci INT:  Mirs. No.  More Driven  Feet Type of Mer.  Y 6.	Mow measured  Mow measured  M.F.  Th of Factpiess in we ter on Pump  AMDUNT  Ma  Semose  Color   Brown	s. per min. per ft.	R.P.M
Description	Feet Specific Capaci  INT:  Mirs. No.  M. How Driven  Feet Depr  Feet Type of Mer  NG	Mow measured  Mow measured  Mo of Factoises in we ser on Pumo  AMDUNT  Ma  Somete  Color Brown or	Simpon  Yes Yen	R.P.M Feet  ToInchesGations DailyGations DailyPF.

DWR 1384 198

## STATE OF NEW JERSEY SEPARTHENT OF ENVIRONMENTAL PROTECTION SINSON OF WATER RESOURCES

PERMIT NO. 210	12580
APPLICATION NO	
COUNTY_ES	SEX
00000000000000000000000000000000000000	23170

OWNER							
Owner's Well A	•	1 W-7	•	SURFACE ELI	EVATION -	Acres no	
LOCATION _	148-18	2 Doce	MUT AVE	Newalk	Now be	254	
DATE COMPL	TED	7-70-8	7 DAIL	LER	Corpo	retion	
DIAMETER.	6 1/4	inches .	Sonom 6 %	inches	TOTAL DE	PTH	12
CASING: Ty	· Schedu	le 40 t	VC	Diameter	7 menu	L	enem /- 5
SCREEN: Ty	PYC	Size of	Opening O.O.Z.	on Diemeter —	2 money		eng.n. 10.5
Range in De	oth { Bot		Fort	Geologic Format	Wisc	CONSIN (	Slacial Til
Tail Piece:	Diameter		neves	Length	Feet		
well flows	NATURALL'	1 1/2 Co	llons per minute s	1	Fort	bove surface	
Water mess t	· 	<del></del>	Feet above su	rrlace			
RECORD OF T	EST Date	NA	Feet above su	Yield_		elions per mi	nute
Statut water		7					
	level before p	gnidun		·	Feet below	surface	
Patholog levi Drawdown	1	feet	below surface afte Specific Cas	DOC:179	Gols. per me	hours gumbir	
Pumping levi Drawsown , Mow pumper Daterves eff	est on nearby	Feet wells	below surface afte	DOC:179	Gols. per me	hours gumbir	
Pumping levi Drawdown How pumper Dourves eff ERMANENT :	et on nearby	Feet wells	Below surface afte Specific Cat	DECITY How m	Gols. per me	hours gumbir	
Pumping levi Drawsown How pumper Doserved ett ERMANENT !	est on nearby	Foet  wells	Specific Cat	Name	Gals, per me	hours pumpir n. per ft. of d	tardown
Pumping levi Drawsown How pumpe: Daterved eff ERMANENT ! Type	es on nearby	Foet  Wells UIPMENT:	Specific Cat  Mirs.  Man Driven	Name	Gals. per me	hours pumpir n. per ft. of d	R.P.M.
Pumping levi Drawsoum How sumper Dourves eth PERMANENT ! Type	DET ON RESTRY	Foet  Wells UIPMENT:  G.P.M Foet	Specific Cat  Mira.  Mow Driven	Name	Gals. per me	heurs pumpir n. per ft. of d	R.P.M
Pumping levi Drawsown How pumper Deserved eff PERMANENT I Type	DET ON RESTRY	Foet  G.P.M.  Foet	Specific Cat  Mirs.  Man Driven	Name	Gals. per me	heurs pumpir n. per ft. of d	R.P.M
Pumping levi Drawsown How pumper Deserved eff PERMANENT I Type	DET ON RESTRY	Foet  G.P.M.  Foet	Specific Cat  Mira.  Mow Driven	Name	Gals. per me	heurs pumeir n. per ft. of d	R.P.M FeetInches Gallons Daily
Pumping levi Drawsour  Mow pumper Datance eff ERMANENT !  Type	est on nearby  Lose in well  MON:	Foet  G.P.M.  Foet  Foet	Specific Cat  Mira.  Mow Driven	Name	Gals. per me	heurs pumeir n. per ft. of d	R.P.M
Pumping levi Drawsoum Mow pumper Datance eff PERMANENT I Type  Capacity  Depth of Air	est on nearby  Lose in well  MON:	Foet  G.P.M.  Foet	Specific Cat  Mira.  Mow Driven	Name	Gals. per me  pasured  H.P.  in well  Maximum  Bomple: Yes	heurs pumeir n. per ft. of d	R.P.M Fee:Inches Gallons Daily Gallons Daily
Pumping levi Drawseum Mow pumper Deserved eff Type Capacity Destin of Pul Destin of Air	Line in well  MON.	Foet  G.P.M.  Foet  Foet  S.UTY  Doo	Specific Cat  Mira.  Mow Driven	Name	Gals. per me  pasured  H.P.  in well  Maximum  Bomple: Yes	heurs pumeir n. per ft. of d	R.P.M FeetInches Gallons Daily
Pumping levi Drawsourn Mow pumper Dourves ett PERMANENT I Type	Line in well  MON.	Foet  G.P.M.  Foet  Foet	Specific Cat  Mira.  Mow Driven	Name	Gals. per me  pasured  H.P.  in well  Maximum  Bomple: Yes	heurs pumeir n. per ft. of d	R.P.M Fee:Inches Gallons Daily Gallons Daily

M M2 1387

## STATE OF NEW JERSEY SEPARTHENT OF ENVIRONMENTAL PROTECTION SINEION OF WATER RESOURCES

PERMIT NO A	01.2581
application no	16037
60UNTY	SSEX
260	251710

L DIMER AMERADA HESS Corporation ADDRESS I HESS PLAZA, WOODBridge, NJ
Queer's Well No MW-4 SURFACE ELEVATION Feet
2 LOCATION 148-182 DOCEMUS AVE, NOWARK, N. T.
9. BATE COMPLETED 9-20-89 DRILLER IT CORDOTATION
4. DIAMETER. Too 6 1/4 inches Bottom 6 1/4 inches TOTAL DEPTH 10 Feet
6. SCREEN. Type PVC Size of Opening 0020 Dismotor 2 Inches Longth 9 For:
6. SCREEN. Type PVC Size of Opening 0000 Dismotor 2 Inches Longth 9 For:
Renge in Depth { Top Feet   Geologic Formation Wiscorysid Glacial Till
Tail Piece: Diameter Inches LengthPeet
7. WELL FLOWS NATURALLY WA Gallons per minute at Feet above surface
Water mes to Feet above surface
8. RECORD OF TEST Date Wield Gollons per minuté
Static water level before pumping Feet below surface
Pumping level feet below surface after hours pumping
Drawdown Feet Specific Capacity Gals, per mm, per ft. of drawdown
Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown  How pumped How measured
Mon pumpes Now measured  Descript effect on meaning wells  PERMANENT PUMPING EQUIPMENT:
Mon pumpes Now measured
Mon pumpes Now measured  Descript effect on meaning wells  PERMANENT PUMPING EQUIPMENT:
Mon pumpes Now measured
Mon pumped Non measured
New pumped
Mow measured  Doserved effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type
Mow pumped
Mow measured
Doserver effect on nearby wells  Dermanent Pumping Equipment:  Type
Mow measured

WZ 1384 86

#### STATE OF NEW JERSEY SEPARTHENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO 2017 582 APPLICATION NO 16037 BOUNTY 6556X BOOMS. 0402317:00

Wars Well No	SURFACE ELEVATION AND AND AND AND AND AND AND AND AND AN
CATION 148-142 DORMAN	SAVE, NAWARK
ATE COMPLETED 4-20-89	DRILLER TT Corporation
	ottom 6 1/4 inches TOTAL DEPTH 10
ASING: Type schedule 40 FVC	Diameter 2 Inches Length /
REEN: Type TVC Size of Open	
Range on Depth {	•
Tail Piece: Diameter Michies	
	ser minute at Feet above surface
Water nees to	Feet above surface
ECORD OF TEST Date	Yield Gellons per minute
•	
Static water level before pumping	Feet below surface
	Feet Below surface w surface after Neurs purhaing
Pumping level feet below	
Pumping level feet below Drawdown Feet	w surface after Neurs surnaing
Pumping level feet below Drawdown Feet	Specific Capacity Gals, per min. per ft_ of drawdown  How measured
Pumping level	Specific Capacity Gals, per min. per ft_ of drawdown  How measured
Pumping level feet below  Drawsown Feet  How sumped  Datened effect on nearby wells  RMANENT PUMPING EQUIPMENT:	Specific Capacity Gals, per min. per ft. of drawdown  How measured
Pumping level feet below  Drowsown Feet  Mow pumped  Dozenies effect on nearby wells  RMANENT PUMPING EQUIPMENT:	Specific Capacity Gals, per min, per ft_ of grawdown  How measured  Mfrs, Name
Pumping level feet below  Drowdown Feet  How pumped  Doserved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type G.P.M. How	Specific Capacity Gals, per min, per ft_ of grawdown  How measured  Mfrs, Name
Pumping level	Specific Capacity Gals, per min. per ft_ of strawdown  How measured  Mfrs. Name H.P R.P.M
Pumping level	Specific Capacity Gals, per min. per ft_ of drawdown  How measured  Mfrs_ Name M.P R.P.M  Depth of Footpiese in well Feet  Type of Meter on Pump SizeInches
Pumping level feet below  Drowsown Feet  Mow pumped Feet  RMANENT PUMPING EQUIPMENT:  Type G.P.M. How  Depth of Pump in well Feet  Depth of Air Line in well Feet	Specific Capacity Gals, per min, per ft, of drawdown  How measured  Mfrs. Name M.P R.P.M  Depth of Footpiese in well Feet  Type of Meter on Pump Size Inches
Pumping level feet below  Drowdown Feet  Mow pumped  Doserved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type G.P.M. How  Depth of Pump in well Feet  Besth of Air Line in well Feet	Specific Capacity Gals, per min. per ft_ of drawdown    Move measured Mfrs. Name M.P R.P.M    Depth of Footpiese in well Feet   Type of Meter on Pump Size Inches
Pumping level	Specific Capacity Gals, per min, per ft_ of strawdown    Mirs, Name M.P. R.P.M   Depth of Footpiese in well Feet   Type of Meter on Pump Size Inches     AMOUNT   Maximum Gallone Daily     Somple: Yes No
Pumping level	Specific Capacity Gals. per min. per ft_ of drawdown  How measured  Mfrs. Name M.P R.P.M  Depth of Footpiese in well Feet  Type of Meter on Pump Size Inches  AMOUNT {  Average Gallons Daily  Maximum Gallons Daily  Somple: Yes No

ON THE

#### STATE OF NEW AREN BEPARTMENT OF ENVIRONMENTAL PROTECTION SINSON OF WATER RESOURCES

PERMIT NO <u>2017583</u> APPLICATION NO <u>16037</u> BOUNTY <u>ESSEX</u> BOORD 2-123170

mery Well NoMW-	SURFACE ELEVATION	•
	ENIUS AVE NEWARK :	<b>**</b> ******
ATE COMPLETED 9-20-89	DRILLER	
AMETER Too 6 14	Settem 6 14 Inches TOTAL DEPTH 10	
sine som Schille 4a	PVC Diameter 2 Inches Lon	,
PVC :	e of Opening O.026 Dismeter Z Inches Len	9
Range in Depth	Geologic Formation WISCONCIN	Glacial
Tail Piece: Diameter		
ILL FLOWS NATURALLY A	Gallons per minute at Feet above surface	
Water mes to	Feet above surface	
SORD OF TEST Date	Feet shove surface  Yield Gallons per minut	<b>(2</b> ·
•	Foot sellow surface	
Pistone level &	has below surface after	
•	lees below surface after Neurs pumping	
Drawsown Foot	Specific Capacity Gals. per min. per ft. of gra-	rdown
Drawsown Foot		vdown .
Drawsown Foot	Specific Capacity Gals, per min. per ft. of dra-	rdown
Drawsown Feet  Mow pumped  Datened effect on nearby wells  RMANENT PUMPING EQUIPMENT:	Specific Capacity Gals, per min. per ft. of dra-	vBown
Drawsown Feet  Now pumped  Datenies effect on nearby wells  RMANENT PUMPING EQUIPMENT:	Specific Capacity Gals, per min. per ft. of dra-	rsown
Previous Feet  New pumpes  Douenes effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type	Specific Capacity Gals, per min. per ft. of gran	rdown
Drawsown Feet  New pumpes  Daterved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type A  Capacity G.P.M.	Specific Cabacity Gals. per min. per ft. of Branch Mov measured Mfrs. Name M.P R.	P.M
Drawdown Feet  New pumped  Datenved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type A  Capacity G.P.M.  Depth of Pump in well F.	Specific Capacity Gals, per min, per ft, of Branch Mow measured More measured Mirs, Name M.P R.P	P.M
Drawdown Feet  New pumped  Datenved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type A  Capacity G.P.M.  Depth of Pump in well F.  Depth of Air Line in well F.	Specific Capacity Gals, per min. per ft. of grand Mow measured Mfrs. Name M.P R.  How Driven M.P R.  Set Type of Meter on Pump Size	P.M FeetInches
Drawdown Feet  New pumped  Datenved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type A  Capacity G.P.M.  Depth of Pump in well F.  Depth of Air Line in well F.	Specific Capacity Gals, per min. per ft. of grand Mow measured Mfrs. Name M.P R.  How Driven M.P R.  Set Type of Meter on Pump Size	P.M FeetInches
Provident Feet  New pumpers  Deserved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type	Specific Capacity Gals. per min. per ft. of grand	P.M FeetInches
Provident Feet  New pumpers  Deserved effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type	Specific Capacity Gals. per min. per ft. of grand	P.M FeetInches
Previous Feet  New pumped  Descript effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type	Specific Cabacity Gals. per min. per ft. of Branch	P.M FeetInches Illons Daily
Drawsown Feet  New pumped  Dougned effect on nearby wells  RMANENT PUMPING EQUIPMENT:  Type	Specific Cabacity Gals. per min. per ft. of Branch	P.M FeetInches Illons Daily

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## STATE OF NEW JERSEY BEPARTMENT OF ENVIRONMENTAL PROTECTION BINSON OF WATER RESOURCES

PERUT NO III	12584
CH HOTASUPPL	16037
BOOK A	

OMER AMERA	IDA HOSS CORPOR	ATION ADDRESS	(03) (000	WOOD OKIDIGE
Curer's Well No.	MW-7	SURFACE ELEV	ATION	
LOCATION 148-	-182 DOREM	ws AVE, No	WARK . NT	
BATE COMPLETED _	9-21-89	DAILLER	Corporit	ien
DIAMETER. Too 6	4 inches Botto	6 1/4 man	TOTAL DEPTH_	11
CASING Type 50	edulo 40 PVC	Diameter	inches	Length
SCREEN: Type PV	Size of Opening	Octo" Dismeter 2	Inches	Longin / O
	Top Fort		<u>-</u>	· ·
	Inenes			
well flows natura	LLLY WA Gollons ser i	Minute at	Feet above su	rlace
Water mes to	Feet	shove suffece		
RECORD OF TEST	Date N/A Feet	· Yield	Gallons o	er Minute
Statut water level befo				
Service marks, states 1864.0	ore sumping		_ Feet below surface	}
Pumping level	feet below suf	flace after	hours po	meing
Pumping level  Drawdown  Maw pumped  Daterved effect on nei	Feet below sur	rface after How mean	Gals, per min, per fi	meing
Pumping level  Drawsown  How pumped  Datenut effect on net	Feet below suf	risce after	Gals, per min, per fi	meing
Pumping level  Drowdown  How pumped  Daterved effect on nei  PERMANENT PUMPING  Type	Foet See  Foet See  Brby wells  EQUIPMENT:	rface after How mean	Gals, per min, per fi	meing
Pumping level  Drowdown  How pumped  Doserved effect on nea  PERMANENT PUMPING  TypeX  Capacity	Feet below suf	rface after How mean	Gals, per min, per fi	meing
Pumping level  Drawdown  How pumped  Daterved effect on nei  PERMANENT PUMPING  Type  Capacity  Depth of Pump in well	Feet below suf	Mirs. Name	Gals, per min, per fi	maing , of drawsown R.P.M.
Pumping level  Drowdown  How pumped  Doserved effect on nei  PERMANENT PUMPING  Type  Capacity  Depth of Pump in well  Depth of Air Line in w	Feet below suf	Mirs. Name	M.P.	maing , of drawsown R.P.M.
Pumping level  Drowdown  How pumped  Daterved effect on nei  PERMANENT PUMPING  Type  Capacity  Depth of Pump in well  Depth of Air Line in w	Feet below suf	Mfrs. Name  Depth of Featpiess  Type of Meter on Pump	M.P.	maing , of drawsown R.P.M.
Pumping level  Drawdown  How pumped  Doserved effect on near  PERMANENT PUMPING  Type/A  Capacity  Depth of Pump in well  Depth of Air Line in a	Feet below suf	Mfrs. Name Depth of Footpiess	M.P.	R.P.M Feet
Pumping level  Drewdown  Mew pumped  Deserved effect on near  PERMANENT PUMPING  Type	Feet below suf	Mfrs. Name  Depth of Featpiess  Type of Meter on Pump	M.P.	R.P.M Feet Gallons Daily
Pumping level  Drawdown  Mow pumped  Doserved effect on nei  PERMANENT PUMPING  Type  Capacity  Depth of Pump in well  Depth of Air Line in a  USED FOR  DUALITY OF WATER  Tasse	Feet below suffered by the suffered below suffered below suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffe	Mfrs. Name  Depth of Featpiess  Type of Meter on Pump	Maximum	R.P.M Feet Gallons Daily
Pumping level  Drawdown  How pumped  Doserved effect on near  PERMANENT PUMPING  Type/A  Capacity  Depth of Pump in well  Depth of Air Line in a	Feet below suffered by the suffered below suffered below suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffe	Mfrs. Name Depth of Featpiess Type of Meter on Pump  AMDUNT	Maximum	R.P.M.  R.P.M.  Feet  Gallens Daily  Mo
Pumping level  Drewdown  How pumped  Deserved effect on neither Pumping  Type  Capacity  Depth of Pump in well  Depth of Air Line in a  BEALITY OF WATER  Take	Feet below suffered by the suffered below suffered below suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffered by the suffe	Milrs. Name  Depth of Footpiess in Color	Maximum	R.P.M.  R.P.M.  Feet  Gallens Daily  Mo

Mg 1337

#### STATE OF NEW JERSEY BEPARTMENT OF ENVIRONMENTAL PROTECTION SINSON OF WATER RESOURCES

. OMER ANERADA HEST CO	D ADDRESS I HEST PLAZA WOODBRIDGE
Guner's Well No	SURFACE ELEVATION Feet
LUCATION 148-182- DOREM	US AVE ! NOWARK : INJ
	DRILLER IT Corporation
DIAMETER. Too 6 1/4 inches Bott	om 6/4 moves TOTAL DEPTH 10 Feet
CASING Type schoolek 40 PVC	Bismeter 2 Inches Longth / Feet
SCREEN: Type PVC Size of Opening	Diameter 2 Inches Longth 1 Feet  10.020 Diameter 2 Inches Longth 9 Feet
	Geologic Formation Wisconcin Glacial Till
Tail Piece: Diameter Inches	LengthFeet
. WELL FLOWS NATURALLY MA Gallons per	minute atFact above surface
Water mes to Fee	1 above surface
RECORD OF TEST Date NA	Vield Gallons per minute
Status water level before pumping	
Pumping level feet below su	riface after hours sumaing
Drawspun Fee: Se	reifie Cabacity Gals. ser min, ser ft, of grawsown
	Now measured
Observed effect on nearby wells	
PERMANENT PUMPING EQUIPMENT:	
Tree M/a	Mfrs. Name
	riven N.P R.P.M
	Depth of Factpiess in well Feet
	Type of Meser on Pump SizeInches
	( Average Gallons Daily
MON: YORING	AMDUNT <
QUALITY OF WATER # SILT	Maximum Gallons Daily
Yess	Ωο «Ι
LOG_ON BACK	Color KRS W/A/ Tome OF.
	Are complete and the ball
_	HETTIG RE MADE, AMADE SUFFICE CONT.
BOURCE OF DATA TT GEOLOGIES BATA DETAINED BY	ist

∧≈ 1284 96

## STATE OF NEW JERSEY SEPARTHENT OF ENVIRONMENTAL PROTECTION BIVEION OF WATER RESOURCES

PERMIT NO	W12580
-	0/6037
BOUNTY	ESSEX
00000 Z/	123170

Cunen And	ERADA HESS (NO	proto ADDRESS _	HEST PLAZA	W/000 BRIDGE, N
Corner's Well No	MW-9 -142 DOREMU	SURFACE EL	EVATION	Feet
LOCATION 149	-192 DOREMU	5 AVE, Neu	LOK IN I	
DATE COMPLETED	9-21-89	Danies I	- Corporation	
	6 /4 inches   Bot			
	phidule 40 PVL			
EASING: Type	PVC Size of Opening		7	10 mgm
			•	
Range in Depth	Top Fo	jet Geologic Forma jet	MINE WILLIAMSIN	GLACIAL TILL
Tail Piece: Diam	eter Inches	Length	Feet	
WELL FLOWS NATI	URALLY LOS Gallons D	er Minute et	Feet above au	riace
Water mes to	F	eet above surface		
RECORD OF TEST	Date N/M		Gelione B	er minute
	before pumping		Feet below surface	•
	feet below		<del></del> :	
_			•	
D134/50Wn	Feet '			L 01 01840000
How pumped		How to	nearyred	
Observed effect of	n nearby wells			
	ING EQUIPMENT:			
Type N/A	<del> </del>	Mirs. Name	<del> </del>	
Capacity	G.P.M. How	Driven	м.Р	R.P.M
Depth of Pump in	ar# Feet	Depth of Footpi	ege in well	Feet
Depth of Air Line	in well Feet	Type of Meter on Pump		BizeInches
	KA a :a		Average	Gallens Daily
used for	MON. TORNE	AMOUNT	•	Gallons Daily
BILLI FOY AS MATI	IR SILTY	,	•	
	7		Somple: Yes	
	$\cdot$ $\cdot$ $\cdot$	Cotor_43		19 9f.
100 En mad m a	M BACK	M since/se log was made, private	Are complex evallable?	
SOURCE OF DATA	IT GEOR			•

WE 1364 GU

#### STATE OF NEW JERSEN BEPARTMENT OF ENVIRONMENTAL PROTECTION BAYSON OF WATER RESOURCES

PERMIT NO. 210	12587
CH HOITASUPEA	
**	
COORD VIV	23176

1.	MARRICA HESS CORPORATION ADDRESS I HESS YEARS WOODS de NJ
	Person Well NoFeet
	DELTION 148-182 DOREMUSAVE., NOWARK, N.J.
3.	DATE COMPLETED 9-21-89 DRILLER DRILLER DRILLER
١.	DIAMETER. Too 6/4 inches Bottom 6/4 inches TOTAL DEPTHFeet
R.	LARING Two Schoolale 40 PVC Diameter 2 inches Length / Fres
i.	CREEN: Type PVC Size of Opening 0,070 Diameter 2 Inches Longin 9/0 Fee:
	Range in Depth { Top Feet   Geologic Formation Wisconsin Guarial Till
	Tail Piece: Diameter thones LengthFeet
١,	VELL FLOWS NATURALLY WAS Gallons per minute at Feet above surface
	Water mes to Feet above surface
١.	ECORD OF TEST Date Gallons per minute
	Static water level before pumping Feet below surface
	Pumping level feet below surface after hours ournoing
	Pumping level feet below surface after hours bumoing  Drawdown Feet Specific Cabacity Gals, per min. per ft. of drawdown
	Pumping tevel feet below surface after hours bumbing  Drawdown Feet Specific Capacity Gals, per min, per ft. of Brawdown  How pumped How measured
	Pumping level
	Pumping sevel feet below surface after hours bumbing  Drawsown Feet Specific Capacity Gals, per min. per ft. of drawsown  How pumped How measured  Dougloss offest on nearby wells  ERMANENT PUMPING EQUIPMENT:
	Pumping sevel
	Pumping sevel
	Pumping level
· ·	Pumping level
	Pumping level
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	Pumping level
. (	Pumping level
. (	Pumping sevel

Form DWR- 138 11/80

FOR MONITORING PHONESES ONLY

### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

Coord: 2622395

COUNTY\_

PERMIT NO. \_\_\_\_\_\_26-7908

APPLICATION NO.

Essex

1.	OWNER KOPPERS CO. INC.	ADDRESS:	· <del>·</del>
	Owner's Well No. PUIA	SURFACE ELEVATION	Feet
2,	LOCATION Lot: Block:	Municipality: Newark	
3.	DATE COMPLETED 8 8 85 DRILL	ER Empire Soils Investigations	
4,	DIAMETER: Top 2 inches Bottom 2	inches TOTAL DEPTH5	_Feet
5.	CASING: Type PUC	Diameter Inches Length 3	Feet
6.	SCREEN: Type PUC Size of Opening 0505	Diameter 2 Inches Length 2	Feet
	Range in Depth	Seologic Formation	
	Tail Piece: Diameter Inches L	.engthFeet	
7.	WELL FLOWS NATURALLY Gallons per minute at	Feet above surface	
	Water rises to Feet above sur	face	
8.	RECORD OF TEST: Date	Yield Gallons per minute	
	Static water level before pumping	Feet below surface	
	Pumping level feet below surface after	hours pumping	
	Drawdown Feet Specific Capa		
		How measured	
	Observed effect on nearby wells		
9.	PERMANENT PUMPING EQUIPMENT:		
	Type Mfrs. N	ame	
		H.P R.P.M	
		pth of Footpiece in well Feet	
	Depth of Air Line in well Feet Type of M		
_		(Average Gallera Daily	
O.	USED FOR	AMOUNT { Average Gallons Daily Maximum Gallons Daily	
1.	QUALITY OF WATER	Sample: Voc. No.	
	Taste Odor	Color Town OF	
2.	LOG	1emp 0F.	
	LOG	Are samples available?as made, please furnish copy.)	
3.	SOURCE OF DATA		
4.	DATA OBTAINED BY Walter Ketter Supervisor: Yeard 1	Date 8/8/85	
	Supervion: Suand	natuck File7	

Form 11/8	DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES  WELL RECORD	2622395  PERMIT NO 26-790  APPLICATION NO  ESSEX
	MODDEDG GO TWG	
1.	OWNER KOPPERS CO. INC. ADDRESS	
	Owner's Well No. PUIB SURFACE ELEVATION	(ADDIS BRAND DO JOSE)
2,	LOCATION Lot: Block: Municipality: Newar	k
3.	DATE COMPLETED 8/8/85 DRILLER Empire Soils	
4.	DIAMETER: Top inches Bottom inches TOTAL DEPT	'HFeet
5.	CASING: Type 900 Diameter 1 Inches	
6.	SCREEN: Type Size of Opening SIZE Diameter Inches	·
7	Range in Depth    Bottom Feet  Tail Piece: Diameter Inches	
,,	WELL FLOWS NATURALLY Gallons per minute at Feet abo	ve surface
<b>Ř</b> .	Water rises to Feet above surface	
0.	RECORD OF TEST: Date Yield Galle	,
	Static water level before pumping Feet below su	
	Pumping level feet below surface after hou	· ·
	Drawdown Feet Specific Capacity Gals, per min, p	per ft. of drawdown
	How pumped How measured	· · · · · · · · · · · · · · · · · · ·
	Observed effect on nearby wells	
9.	PERMANENT PUMPING EQUIPMENT:	
	Type Mfrs, Name	
	Capacity G,P.M. How Driven H,P	R.P.M.
	Depth of Pump in well Feet Depth of Footpiece in well	Feet
	Depth of Air Line in well Feet Type of Meter on Pump	

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.) 13. SOURCE OF DATA 14. DATA OBTAINED BY Walter /

Odor \_

AMOUNT

Color\_

Maximum\_

Sample: Yes \_\_

10. USED FOR

11. QUALITY OF WATER \_

Size \_\_\_\_Inches

\_\_\_ Gallons Daily

Gallons Daily

\_\_ Temp, \_\_\_\_\_ of

SUPLIVION: XUCLA MOUACK #1167
(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Form DWR- 138 11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord:	2622395	j
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COUNTY\_

PERMIT NO
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26-7907

FOR MONITORING PURPOSES ONLY

#### WELL RECORD

APPLICATION NO.	Essex
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1. OWNER KOPPERS CO. INC.  Owner's Well No.  Lot: Block: Municipality: News Provention as invest  SURFACE ELEVATION News Provention as invest  Peet  Location Lot: Block: Municipality: News Provention as invest  Block: Municipality: News Provention as invest  Empire Soils Investigations  DRILLER Empire Soils Investigations  DRILLER Empire Soils Investigations  Feet  Diameter Inches Length Feet  Range in Depth Top Feet  Range in Depth Sottom Feet  Range in Depth Sottom Feet  Range in Depth Sottom Feet  Range in Depth Sottom Feet  Range in Depth Gallons per minute at Feet above surface  Record Of Test: Date Feet Blow surface  Record Of Test: Date Yield Gallons per minute  Static water level before pumping Feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Gallons Peet Depth of Footpiecs in well Feet  Depth of Pump in well Feet Depth of Footpiecs in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  Amount Average Gallons Daily  Maximum Gallons Daily  Maximum Gallons Daily  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?  Are samples aveilable?		1 Giu Godo
Owner's Well No. PUC SURFACE ELEVATION News (Prove misor ase level)  2. LOCATION Lot: Block: Municipality: News (Prove misor ase level)  3. DATE COMPLETED SISS DEFINED DRILLER Empire Soils Investigations  4. DIAMETER: Top inches	1.	OWNERADDRESS
2 LOCATION Lot: Block: Municipality: News (Previous measures in trees)  3. DATE COMPLETED \$8.85 DRILLER Empire Soils Investigations  4. DIAMETER: Top inches		Organica Mail No. PA 1 A
4. DIAMETER: Top 2 inches Bottom 2 inches TOTAL DEPTH 5 Feet  5. CASING: Type PUC Size of Opening (LSC) Diameter 2 Inches Length 3 Feet  6. SCREEN: Type PUC Size of Opening (LSC) Diameter 2 Inches Length 4 Feet  7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface  Water rises to Feet above surface  8. RECORD OF TEST: Date Yield Gallons per minute  Static water level before pumping Feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown How pumped How measured  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name Capacity Gallons per minute Feet Type of Meter on Pump Size Inches  10. USED FOR AMOUNT AMOUNT AMOUNT AMOUNT Gallons Daily  Maximum Gallons Daily  Maximum Gallons Daily  Maximum Gallons Daily  Maximum Gallons Daily  Maximum Temp. 9F.  Taste Odor Color Temp. 9F.  Are samples available?	2.	LOCATION Lot: Block: Municipality: Newark (Above mean see level)
4. DIAMETER: Top	3.	DATE COMPLETED 8/8/85  DRILLER  Empire Soils Investigations
5. CASING: Type PUC Size of Opening (LSC) Diameter Inches	4.	DIAMETER: Top 2 inches
6. SCREEN: Type PUC Size of Opening LECOT Diameter Inches	5.	CASING. Time PUC
Range in Depth    Sottom	6.	SCREEN: Time PIIC
Tail Piece: Diameter		•
Water rises to Feet above surface  8. RECORD OF TEST: Date Yield Gallons per minute  Static water level before pumping Feet below surface  Pumping level feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured		
8. RECORD OF TEST: Date	7.	WELL FLOWS NATURALLY Gallons per minute at Feet above surface
Static water level before pumping Feet below surface  Pumping level feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured		Water rises to Feet above surface
Static water level before pumping Feet below surface  Pumping level feet below surface after hours pumping  Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown  How pumped How measured	8.	RECORD OF TEST: Date Yield Gallons per minute
Pumping level feet below surface after hours pumping  Drawdown Feet		
Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown  How pumped How measured  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P. R.P.M.  Depth of Pump in well Feet Depth of Footpiece in well Feet  Depth of Air Line in well Feet Type of Meter on Pump Size Inches  10. USED FOR AMOUNT AMOUNT AMOUNT AMOUNT AMOUNT AMOUNT AMOUNT Sample: Yes No  Taste Odor Color Temp. OF.  12. LOG Give details on back of sheet or on separate sheet. If electric log was made, please furnish capy.)		
How pumped How measured  Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type		
Observed effect on nearby wells  9. PERMANENT PUMPING EQUIPMENT:  Type		How pumped How measured
9. PERMANENT PUMPING EQUIPMENT:  Type		Observed effect on nearby wells
Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet	9.	PERMANENT PUMPING EQUIPMENT:
Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet		Type Mfrs, Name
Depth of Pump in well Feet		Capacity G.P.M. How Driven H.P R.P.M.
Depth of Air Line in well Feet Type of Meter on Pump SizeInches Inches		Depth of Pump in well Feet Depth of Footpiece in well Feet
AMOUNT  AMOUNT  Awerage Gallons Daily  Maximum Gallons Daily  11. QUALITY OF WATER Sample: Yes No  Taste Odor Color Temp of.  12. LOG Are samples available? Are samples available? Are samples available? Source OF DATA		Danish of Atlanta
11. QUALITY OF WATER Sample: Yes No  Taste Odor Color Temp of.  12. LOG (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  13. SOURCE OF DATA	1Ò.	_
Taste Odor Color Temp OF.  12. LOG Are samples available? Are samples available? Source Of Data (In a first copy.)		AMOUNT Maximum Gallons Daily
Taste Odor Color Temp of.  12. LOG Are samples available? Are samples available? Source of DATA (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)	11.	QUALITY OF WATER
Are samples available?  [Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.]  13. SOURCE OF DATA		Taste Odor Color Color
13. SOURCE OF DATA	12,	LOG Are samples qualished?
410.01	13.	SOURCE OF DATA
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SUPLIVIOR. SUCCES MULACK #1/67

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

<u> </u>	OF	ROM	DRILL 15	LED O	WE	ATH	ER	TEMP	TIM	E	ES!	GRO.	ELEV DEPTH		
HEET	<u> </u>	<u> </u>	0	·			=	PRO	NECT E	or h	News	1/1		:	
epth of ample	MARTIE NO.	1	LOWS ON	N	BLDWS ON CASING C	MOISTURE	COLOR		CLASSIFIC MATERIAL	CATIO	N OF			OTHER DATA	
-13 -/4/ -/5	1 2 3 9 7 7 9 10 11 13 14 15	21 6 73 / 4 6 2 1 1 1 1 1				mo mo m m	Br. Br	Red/ 137 S: 44 Cl 9, 247 C Ped Ped	Silty con parties of the of	Lay	Tr. Gill Tr. to org.  P. Storm  Apr. Storm  Apr. Storm  Apr. Sould  Sould  Sould  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P. L. Storm  P	100 /	no de n. Noots odd stopps	der oder	
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form DWR- 133 11/80

STATE OF NEW JERSEY COORD: 2622395

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO26-791	Ō
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APPLICATION	NO.		
	E	Ess	ex

COUNTY

#### WELL RECORD

1,	1. OWNER KOPPERS CO. INC. ADDRESS	
	Owner's Well No. PD 2 A  SURFACE ELEVATION  (Above mean see level)	Feet
2.	2. LOCATIONBIOCK: MUNICIPALITY: Newark	
3.	3. DATE COMPLETED 8/12/85 DRILLER Empire Soils Investigation	3
	4 DIAMETER, Top 2 1 1 1	Feet
5.	5. CASING: Type PUC Diameter 2 Inches I comb	F
6.	6. SCREEN: Type YVC Size of Opening SST Diameter Inches Length 2	Feet
	Range in Depth	
	Tail Piece: Diameter Inches LengthFeet	
7.	7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface	
	Water rises to Feet above surface	
8.	B. RECORD OF TEST: Date Yield Gallons per minute	
	Static water level before pumping Feet below surface	
	Pumping level feet below surface after hours pumping	
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown	
	How pumped How measured	
	Observed effect on nearby wells	
9.	PERMANENT PUMPING EQUIPMENT:	
	Type Mfrs, Name	
	Capacity G.P.M. How Driven H.P R.P.M	
	Depth of Pump in well Feet Depth of Footpiece in well Feet	
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches	
10.	. USED FOR Gallons Daily  AMOUNT   Amount   Maximum Gallons Daily	
11.	. QUALITY OF WATER	
12.	Taste Odor Color Temp, o <sub>F</sub> .	
	. LOG Are samples available? (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)	
	SOURCE OF DATA	
14.	DATA OBTAINED BY Waltu Kettu Date 8/12/85	
	Date 8/12/85  Supervisor: Gerard Malack #1/67  (NOTE: Use other side of this shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for additional states of the shore for	

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

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form DWR- 108 11/80

#### STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

Coord: 2622395

COUNTY\_

	•	26-7911	
А	MIT NO		

APPLICATION NO. ESSEX

#### WELL RECORD

1.	OWNER KOPPERS CO. INC. ADDRESS	
	Owner's Well No. PULB SURFACE ELEVATION	Feet
2.	Owner's Well No. PU2B  SURFACE ELEVATION  LOCATION Lot: Block: Municipality: Newark  Municipality: Newark	_,
3.	DATE COMPLETED 8/19/85 DRILLER Empire Soils Investigations	
4.	DIAMETER: Top 2 inches Bottom 2 inches TOTAL DEPTH 10	_Feet
5.	CASING: Type PUC Diameter Inches Length 8	_Feet
6.		_Feet
	Range in Depth { Top Feet Geologic Formation Geologic Formation	
	Tail Piece: Diameter Inches LengthFeet	
7.	WELL FLOWS NATURALLY Gallons per minute at Feet above surface	
	Water rises to Feet above surface	
8.	RECORD OF TEST: Date Yield Gallons per minute	
	Static water level before pumping Feet below surface	
	Pumping level feet below surface after hours pumping	
	Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown	
	How pumped How measured	•
	How pumped How measured	•
9.	How pumped How measured  Observed effect on nearby wells	
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:	
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name	
9.	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M	-
<b>9.</b>	How pumped How measured  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity G.P.M. How Driven H.P R.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet	
	How pumped How measured	
10.	How pumped How measured	-
10.	How pumped How measured	·
10.	How pumped	·
10. 11.	How pumped	
10. 11. 12.	How pumped How measured	
10. 11. 12.	How pumped	·

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Form DWR- 133 11/80

Coord: 2622395

STATE OF NEW JERSEY

1. DEPARTMENT OF ENVIRONMENTAL PROTECTION

OUT DIVISION OF WATER RESOURCES DIVISION OF WATER RESOURCES

PERMIT NO.	26-7912

APPLICATION NO. \_

COUNTY\_

Essex

#### **WELL RECORD**

1.	ONNER KOPPERS CO. INC. ADDRESS	
	Owner's Wall No. POJC	Feet
2.	LUCATION BLOCK: MUNICIPALITY: Newark	
3.	B. DATE COMPLETED 8/12/85 DRILLER Empire Soils Investigations	3
4.	DIAMETER: Topinches Bottominches TOTAL DEPTH	Feet
5.	i. CASING: Type PUC Diameter 2 Inches Length /3	Feet
6.		Feet
	Range in Depth	
	Tail Piece: Diameter Inches LengthFeet	
7.	. WELL FLOWS NATURALLY Gallons per minute at Feet above surface	٠
	Water rises to Feet above surface	
8.	. RECORD OF TEST: Date Yield Gallons per minute	
	Static water level before pumping Feet below surface	
	Pumping level feet below surface after hours pumping	
	Drawdown Feet Specific Capacity Gals, per min, per ft, of drawdown	
	How pumped How measured	
	Observed effect on nearby wells	
9.	· · · · · · · · · · · · · · · · · · ·	
	Type Mfrs. Name	
	Capacity G.P.M. How Driven H.P R.P.M	
	Depth of Pump in well Feet Depth of Footpiece in well Feet	
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches	
10.	LISED FOR Gallone Delity	
	AMOUNT AMOUNT Gallons Daily	
11.	QUALITY OF WATER Sample: Yes No	
	Taste Odor Color Temp ºF.	
12.	LOG	
12	(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)  SOURCE OF DATA	
		<del></del>
14.	Supervisor: Mind Mark #112	<del>.</del>
	(NOTE: Use other side of this sheet for additional information such as log of materials penetrated,	

analysis of the water, sketch map, sketch of special casing arrangements, etc.)

50/# Divm. 138

## STATE OF NEW JERSEY OF OC. OC. OC. DEPARTMENT OF ENVIRONMENTAL PROTECTION PER DIVISION OF WATER RESOURCES

PERMIT NO 3610343-	9
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April 13

	APPLICATION NO
WELL RECORD	COUNTY_ESSEX

1	OWNES Tidewater Bailing Corporation	ADDRESS Newark, New Jersey
	Omner's Well No. MW-3	SURFACE ELEVATION (Abon men as gre)
2.	LOCATION Lot: 2 Block:	2487
<b>J</b> .	DATE COMPLETED 2-25-87 DRIL	LER EMPIRE SOILS INVESTIGATIONS, INC.
3	DIAMETER. Top H inches Bottom H	inches TOTAL DEPTH
<b>\$</b> .	CASING: TYPE PYC	Diameter inches Longth 3.0 200:
<b>5</b> .	SCHEEN. Type PYC Size of Opening 010	Diameter 1 Inches Longth 6.0' Fact
	Flange in Depth   Bottom Feet	Geologic Formation
	(3il Piece: DiameterInches	LengthFoet
:	NELL PLOWS NATURALLY Gallons per minute in	et Feet above surface
	Worser rices to Fact above in	ýrfače
	A SODIAD OF TEST: Date	Yield Gallons per minute
	Bratis water level before pumping	Fact below surface
	Zunnging lave! feet below surface aft	erhours oumping
	O. m. down Feet Specific Ca	pacity Gals, per min, per ft, of drawdown
	Now gumget	Now macaured

3. PORMANENT PUMPING EQUIPMENT.

14. DATA OSTAINED BY Chris O'Shaughnessy & Supervisor: Jerry
Malack #1167

Costoved effect on nearby wells ...

(NOTE: Use other side of this sheet for additional information such as log of materials panetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

NOTATION:	SIZE AUGERS/CASING 6 10 SIZE SPOON 2
	SIZE THIN-WALLED TUBE SIZE CORE
	N . NO. OF BLOWS TO DRIVE - "SPOON" WITH! TO B. WEIGHT FALLING 35 PER BLOW

NO. OF BLOWS TO DRIVE ID. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

50- Dive- 138

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

ay da	· U 100	
IOTECTION	PERMIT NO	<u>a6107919</u>

APPLICATION NO \_\_\_\_\_

	OWNER Tidewater Bailing Corporation	DDRESS Newark, 1	lew Jersey
1.	Owner's Mail No. MW-4 S	URFACE ELEVATION	
	lot. 2 Rinck.	2487	
-	TOD DUMY DOLLE	EMPTRE SUILS	INVESTIGATIONS, INC.
3.	DIAMETER: Top Bottom	iosher TOTA	DEPTH13.0 /_ Fac:
4.	CASING: Type PVC	Alexander 4	tener 30' Fee:
<b>5</b> .	SCHEEN: Type PYC Size of Opening Q10	Digmoter	Length 10.0 For:
<b>š</b> .		Dismetter	Sics South Transfer co.
	Range in Depth Ge Bottom Fee:	ologic Formation	
	Tail Piace: Diameter Inches	ngth	Fart.
7	WELL FLOWS NATURALLY Gallons per minute at _		Feet above surface
•	Water rices to Feet above surfi		•
à	AECORD OF TEST: Date	Yield	Gallors per minute
<b>9</b> .	Static water level before pumping	Feet	below surface
	Purnging level fact below surface after		hours pumping
	Distridown Foe: Specific Capac	eir Gals, i	ger min, per ft. of drawdown
	How gempet	How executed _	
	Operand effect on nearby wells		
3.	) PERMANENT PUMPING EQUIPMENT.		
	Type Mfrs. H	sme	
	Capacity G.P.M. How Driven		
	Gepth of Pump in wall Feet De	· ·	
	উপ্তর্জ at Air Line is well Feet Type of M	eter on Pump	•
: ስ	1 Lassu 707	AMOUNT AME	Gallers Daily
, y.	, 5055 7 5 11	( Hex	Geliens Daily
11	1. DUALITY OF WATER	Semple:	Yes No
	7 InteOdor	. Color	Temp OF.
泔	3. 1.96	Are some	ples available?
	COMPANY OF THE PART OF SHARE OF SHARE OF THE PARTY OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE SHARE OF THE		
	3. BOUNCE OF DATA	muicani Jerry	April 13, 1987
14	4. DATA OBTAINED BY CHITS O SHAUGHHESSY & SUDE	Malack #1	67

DATE 2/24		/ 12:3	F	ROI	u	DRIL	LEC	-	EAT! رادن	HER TEMP EMPIRE SOILSHWESHGATONS INC	HOLE NO. <u>みいゼ</u> GRD. ELEV
PROJ LOCA						Ten A K			0//		eet
DEPTH OF SAMPLE	SAMPLE NO	BLO SA	WS MP	ON LER	N	BLOWS ON CASING C	MOISTURE	COLOR	SAMPLE RECOVERY	CLASSIFICATION OF OMATERIALS DRILLED	THER WELL DETAILS
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			7	0						SILT PACE OF	· ·
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						-					
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	-									DRILLERS CLAS	SIFICATION
NOTATION: SIZE AUGERS/CASINGU/dSIZE SPOON											
			N	• 1	NO.		.ow:	s T	D DF	IVE 2 "SPOON 24" WITH /FUD. WEIGHT	FALLING SOPER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

Form Div/R- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

Co-ord # 26.23.14/ PERMIT NO. 2609501-7
APPLICATION NO
Canadi

	APPLICATION NO.
FOR MONITORING PURPOSES ONLY WE	ELL RECORD COUNTY Essex
OWNER CBS Urban Renewal Corporation	ADDRESS 51 W. 52 nd St., New York, N.Y.
Owner's Well No. CBSW1	SURFACE ELEVATION 13.9 Feet
A LOCATION Municipality of Newark, Lo	t #1. Block 5060
9/25/86	DRILLER Jersey Boring and Drilling
Bottom .	inches TOTAL DEPTHFeet
E CASING Type	Diameter Inchés Length
Size of Opening	InchesFeet
Range in Depth	*ormation
Tail Piece: Diameter  7. WELL FLOWS NATURALLY  Water rises to  B. RECORD OF TEST: L SEE REVERSE	Feet above surface
WELL FLOWS MATORALLY _	surface
Water rises to	Yield Gallons per minute
B. RECORD OF TEST: L	Feet below surface
Static water level before p	
Pumping level feet below surfa	ace after hours pumping
Drawdown Feet Speci	ific Capacity Gals, per min, per ft. of drawdown
How pumped	How measured
Observed effect on nearby wells	
9. PERMANENT PUMPING EQUIPMENT:	
Туре	Mfrs. Name
Capacity G.P.M. How Driv	ven H.P R.P.M
Depth of Pump in well Feet	Depth of Footpiece in well Feet
Depth of Air Line in well Feet T	Type of Meter on Pump SizeInches
Monitorina	AMOUNT Average Gallons Daily
10. USED FOR Monitoring Laboratory Tests co	1 Blackmish Galloni USIV
11. QUALITY OF WATER Results on file.	
	Color Temp OF.
12. LOG Attached  (Give despite on back of short or an experies short. If all	
(Give details on back of short or on separate short. If all	lectric log was mede, please furnish eapy.)

Date \_\_June\_12. 1987

CBS Inc., New York, NY 10036

West Orange, New Jersey 07052

Dan Raviv Associates, Inc.

13. SOURCE OF DATA

14. DATA OBTAINED BY

Fer Dia 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

to-ora. # 20.23.14/
PERMIT NO. 2609504
APPLICATION NO
COUNTY ESSEX

FOR MONITORING PURPOSES ONLY.

MELL HECOUR	ELL RECOP	ID
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	OWNER CBS Urban Renewal Corporation ADDRESS 51 W. 52 <sup>nd</sup> St., New York, N.Y.
1.	Owner's Well No. CBSW2 SURFACE ELEVATION 16.1 : Fee:
_	LOCATIONMunicipality of Newark. Lot #1. Block 5060
2.	DATE COMPLETED 9/29/86 DRILLER Jersey Boring and Drilling
3.	DIAMETER: Topinches Bottominches TOTAL DEPTHFee
4	CASING: Type Fee
	E.A
6.	
	Range in Depth Bottom
	Tail Piece: DiameterFeet
7.	WELL FLOWS NATURAL! Feet above surface
	Tail Piece: DiameterFeet  WELL FLOWS NATURAL!  Water rises to  SEE REVERSE SIDE  Feet above surface  Yield Gallons per minute
8.	RECORD OF TEST: Da Yield Gallons per minute
	Static water level before pu
	Pumping level hours pumping
	Drawdown Feet Specific Capacity Gals, per min, per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet . Type of Meter on Pump SizeInches
	D. USED FOR Monitoring AMOUNT AMOUNT
10	Laboratory Tests conducted,  AMOUNT  Maximum Gellons Daily
11	1. QUALITY OF WATER Results on file. Semple: Yes X No
	Terte Odor Color Temp OF.
12	2. LOG Attached Are samples available?
	3. SOURCE OF DATA CBS_Inc. New York NY 10036
	4. DATA OBTAINED BY Dan Raviv Associates, Inc. Date June 12, 1987
	West Orange, New Jersey 07052

Fem DigR- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CO-014. #	
PERMIT NO	2609505-0
APPLICATION	•
	•
COUNTY_ES	36¥

FOR	MODIFICRING	PURPOSES	OHLY
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## WELL RECORD

	OWNER CBS Urban	Renewal Corpo	ration Anneses 51	1 W. 52 <sup>nd</sup> St. 1	lew York, II.Y.	
1.	OWNERCRSW3		SURFACE EL	EVATION1	9 :	Fee:
			rk. Lot #1. Block 50			
2.	LOCATIONO	30 /96	DRILLERJers	ev Boring and D	rilling	
3.	DATE COMPLETED	AUZ66	Bottominches	TOTAL DEPTH_		Feet
4.	DIAMETER: Top	, inches	Diameter _	inches	Length	Feet
5.	CASING: Type	2:100	ening vneter _	Inches	Length	Feet
6.					5000 m	
	Range in Depth Bo	ntom	Feet m	etion		<del></del>
	Tail Piece: Diameter	ir	<u></u>	Feet		
7.	WELL FLOWS NATURAL	LY	e side	Feet above	surface	
	Water rises to		RSE surface		•	
8.	RECORD OF TEST: Date	EEE AE	Yield	Gallon	s per minute	
	Static water level before			Feet below surf	face	
	Pumping level	eet be	low surface after	hour	s pumping	
	Drawdown	Feet	Specific Capacity	Gals, per min, pe	r ft. of drawdown	
	Drawdown	Feet	Specific Capacity How t	Gals, per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. per min. p	or ft. of drawdown	
	How pumped		How t	measured		
9.	How pumped	by wells	Specific Capacity How t	measured		
9.	Observed effect on near	by wells	How t	measured		
9.	How pumped Observed effect on near PERMANENT PUMPING ! Type	by wells	How t	measured		
9.	How pumped Observed effect on near PERMANENT PUMPING ! Type Capacity	by wells EQUIPMENT: G.P.M. I	Mfrs, Name	H.P.	R,P.M	<u> </u>
9.	How pumped Observed effect on near PERMANENT PUMPING ! Type Capacity	EQUIPMENT:  G.P.M. I	How t	H.P	R.P.MFeet	<u> </u>
9.	How pumped Observed effect on near PERMANENT PUMPING if Type Capacity Depth of Pump in well	by wells EQUIPMENT: G.P.M. I Feet	Mfrs. Name	H.P	R.P.M. Feet Size Inches Gallons Daily	<u> </u>
	How pumped  Observed effect on near PERMANENT PUMPING I  Type  Capacity  Depth of Pump in well  Depth of Air Line in well  USED FOR Monit	by wells  EQUIPMENT: G.P.M.   Feet ell Feet oring ! aboratory Tes	Mfrs. Name  Mow of Meter on Pump  AMOUNT  Sts conducted,	H.P	R.P.MFeet SizeInchesGallons DailyGallons Daily	<u> </u>
	How pumped  Observed effect on near PERMANENT PUMPING I  Type  Capacity  Depth of Pump in well  Depth of Air Line in well  USED FORMonit	G.P.M.   G.P.M.   Feet   Feet   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet   G.P.M.   Feet	Mfrs. Name  How of Meter on Pump  Type of Meter on Pump  AMOUNT  sts conducted,	H.P iece in well  Average Maximum	R.P.M. Feet SizeInches Gallons Daily Gallons Daily No	<u> </u>
11	How pumped  Observed effect on near PERMANENT PUMPING !  Type  Capacity  Depth of Pump in well  Depth of Air Line in well  USED FORMonit  Cuality OF WATER	G.P.M.   G.P.M.   G.P.M.   Feet    Feet   Oring   aboratory Tes   Results on fil	Mfrs. Name  Mow of Meter on Pump  Type of Meter on Pump  AMOUNT  sts conducted,  le.  Color	H.P iece in well  Average Maximum Sample: Yes X	R.P.M. Feet SizeInches Gallons Daily Gallons Daily No TempOF.	<u> </u>
11	How pumped Observed effect on near PERMANENT PUMPING !  Type Capacity Depth of Pump in well Depth of Air Line in well USED FORMonit  Cuality OF WATER Taste	G.P.M.  G.P.M.  Feet  oring ! aboratory Tes Results on fil	Mfrs. Name  Mow of Meter on Pump  Type of Meter on Pump  AMOUNT  sts conducted,  le.  Color	H.P  ilece in well  Average  Maximum  Sample: Yes X	R.P.M. Feet SizeInches Gallons Daily Gallons Daily No TempOF.	<u> </u>
11	How pumped  Observed effect on near PERMANENT PUMPING!  Type  Capacity  Depth of Pump in well  Depth of Air Line in well  USED FOR Monit  Taste  LOG Attached  IGira details on book e	G.P.M.  G.P.M.  Feet  I Feet  Oring  Laboratory Tes  Results on fil	Mfrs. Name  How of Meter on Pump  Type of Meter on Pump  AMOUNT  sts conducted,  le.  Color	H.P  iece in well  Average  Maximum  Semple: Yes  Are samples evailables furnish expy./	R.P.M. Feet SizeInches Gallons Daily Gallons Daily No TempOF.	<u> </u>

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Form DNR- 13E

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

ÇO-Gru	÷ π	20.23.147	
PERMIT	NO	2609507-6	

FOR	MONITORING	PURPOSES	ONLY.
1 OIL	Maria		

### WELL RECORD

MERCICAI	I U A	H.C		 _
COUNTY	Es	sex		

1	OWNER CBS Urban Renewal Corporation ADDRESS 51 W. 52 nd St., New York, N.Y.
•	Owner's Well No. CBSW4 SURFACE ELEVATION 13.5 Fee:
2	LOCATION Municipality of Newark, Lot #1. Block 5060
	DATE COMPLETED 9/30/86 DRILLER Jersey Boring and Orilling
	DIAMETER: Topinches Bottominches TOTAL DEPTHFeet
	CASING: Type   Diameter Inches   Length Feet
	SCREEN: Type Size of Opening ter Inches LengthFeet
ъ.	Range in Depth
	Tail Piece: DiameterFeet
7.	Tail Piece: Diameter
	Water rises to REVERS
8.	RECORD OF TEST: Date SEE Yield Gallons per minute
	Static water level before pump. Feet below surface
	Pumping level below surface after hours pumping
	Drawdown Feet Specific Capacity Gals, per min. per ft. of drawdown
	How pumped How measured
	Observed effect on nearby wells
9.	PERMANENT PUMPING EQUIPMENT:
	Type Mfrs. Name
	Capacity G.P.M. How Driven H.P R.P.M
	Depth of Pump in well Feet Depth of Footpiece in well Feet
	Depth of Air Line in well Feet Type of Meter on Pump SizeInches
	( Average Gallons Daily
10.	USED FOR Monitoring AMOUNT Maximum Gellons Daily
11	laboratory Tests conducted,  QUALITY OF WATER Results on file.  Semple: Yes X No
	Teste Odor Color Temp <sup>OF</sup>
12.	LOG Attached Are samples evailable?
13	SOURCE OF DATA CBS Inc. New York, NY 10036
14	Data OBTAINED BY Dan Raviv Associates, Inc.  West Orange, New Jersey 07052

Form Di/R- 13E 11/80

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

PERMIT NO.	2609502-5
APPLICATION	NNC
COUNTY_E	ssex

FOR MUNITORING PURPOSES ONLY.

## WELL RECORD

_	CHASE CBS Urban Renewal Corporat	ion ADDRESS 51 W. 52 nd St., New York, N.Y.
1.	Owner's Well No. CBSW5	SURFACE ELEVATION 12.1 Fee:
2	LOCATION Municipality of Newark	Lot #1. Block 5060
3	DATE COMPLETED 9/31/86	DRILLER <u>Jersey Boring and Drilling</u>
4.	DIAMETER: Topinches Bor	tominches TOTAL DEPTHFeet
5	CASING: Type	Diameterinches LengthFeet
6.	SCREEN: Type Size of Openin	ng ter Inches Length Feet
	Range in Depth	et
	Tail Piece: Diameter  WELL FLOWS NATURALLY	Feet above surface
7.	WELL FLOWS NATIONALLY	surface
8.	Tail Piece: Diameter  WELL FLOWS NATURALLY  Water rises to  RECORD OF TEST: Date	
	Static water level before pump.	Feet below surface
		surface after hours pumping
	Drawdown Feet	casatta Canadas. Gale per min per ft of drawdówn
		Specific Capacity Gals, per min, per ft, of drawdown
•	How pumped	How measured
	How pumped	
9.	Observed effect on nearby wells	How measured
9.	PERMANENT PUMPING EQUIPMENT:  Type	Mfrs. Name
9.	How pumped	Mfrs, Name
9.	How pumped	Mfrs. Name  Depth of Footpiece in well  Feet
9.	How pumped	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  How measured  H.P. R.P.M.  Feet  SizeInches
9.	How pumped	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  How measured  H.P. R.P.M.  Feet  SizeInches
	Depth of Air Line in well Feet  USED FOR	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  AMOUNT  AMOUNT  Maximum  Gellons Daily  Gellons Daily
	Depth of Air Line in well Feet  USED FOR   Laboratory Tests  Observed effect on nearby wells  PERMANENT PUMPING EQUIPMENT:  Type G.P.M. How  Depth of Pump in well Feet  USED FOR Monitoring  ! aboratory Tests  QUALITY OF WATER Results on file.	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  AMOUNT  AMOUNT  Maximum  Gallons Daily  Sample: Yes X  No
11.	Depth of Air Line in well Feet  USED FOR   Laboratory Tests  QUALITY OF WATER Results on file.  Depth of pump in well Feet    Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  AMOUNT  AMOUNT  Maximum  Gallons Daily  Sample: Yes X  No  OF.
11.	Depth of Air Line in well Feet  USED FOR   Laboratory Tests  QUALITY OF WATER Results on file.  Depth of pump in well Feet    Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory	Mfrs. Name  Depth of Footpiece in well  Type of Meter on Pump  AMOUNT  AMOUNT  Maximum  Gallons Daily  Sample: Yes X  No
11.	Depth of Air Line in well Feet  USED FOR   Laboratory Tests  QUALITY OF WATER Results on file.  Depth of pump in well Feet    Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory Tests   Laboratory	Mfrs. Name  Driven H.P. R.P.M.  Depth of Footpiece in well Feet  Type of Meter on Pump Size Inches  AMOUNT AMOUNT Maximum Gallons Daily  Sample: Yes X No Color Temp.  Are samples evailable?  Are samples evailable?

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

### ATTACHMENT 3

### ENVIRONICS WELL INSTALLATION DATA

#### SOIL BORINGS & MONITORING WELLS

CENTRAL STEEL DRUM COMPANY

704 DOREMUS AVENUE

NEWARK, NJ 07105

Prepared by

- bhu per

JOHN BEE, C.P.G., Senior Geologist/Geohydrologist

Reviewed by

JOHN R. BURGER, C.H.C.M., Vice President

For

Alan Fischer

CENTRAL STEEL DRUM COMPANY

June 1, 1984

#### BACKGROUND INFORMATION

This investigation was developed at the request of Mr. Alan Fischer of Central Steel Drum Co. following discussions concerning the site between Central Steel Drum Co., the New Jersey Department of Environmental Protection (NJDEP), and Environics, Inc.

During these discussions, it was agreed that Environics, Inc. would prepare and implement a soil boring investigation and install eight (8) nested monitoring wells in locations specified by the NJDEP. Further, it was agreed that these wells would be surveyed, and the groundwater sampled, for priority pollutants, plus 40 (tentatively identified) organic non-priority pollutant compounds (Appendix A).

Subsequently, Environics, Inc. obtained a quotation from Diamond Drilling Inc. and the field work was completed between May 16-18, 1984, under the review of Mr. Walter S. Samsel, a Geologist with the Division of Water Resources, NJDEP.

The Project Geologist assigned to this work is Mr. John Bee, and the Quality Assurance Manager is Mr. John R. Burger.

#### Operation:

The facility is currently engaged in the reconditioning of steel drums that involves the handling of legally empty drums\* that are incinerated on site for removal of surface coatings. The above mentioned drums are stacked above ground throughout the site, and following removal of surface coatings, the drums are sand-blasted and reshaped, tested and coated prior to re-sale.

<sup>\* &</sup>quot;Empty drums" as defined by NJAC 7:26-8.4(b)i

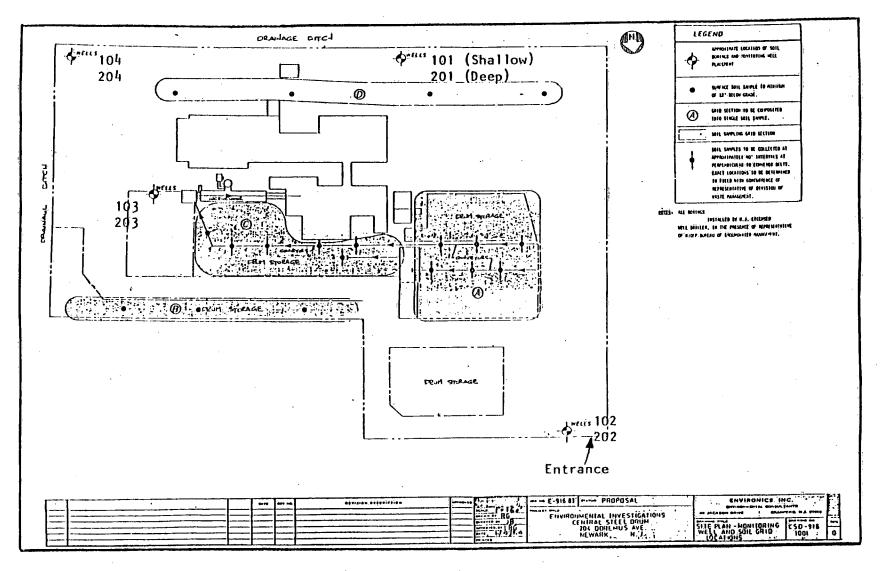


Figure 1. Site Plan of Monitoring Wells, Central Steel Drum.

### METHOD OF INVESTIGATION

Between May 16-18, 1984, a Professional Geologist of Environics, Inc. supervised the drilling of four (4) soil borings and the installation of eight (8) monitoring wells as nested pairs at the four locations illustrated in Figure #1. These plotted positions are approximations pending a survey of location and elevation by a Professional Land Surveyor.

### Soil Borings:

Continuous soil samples were taken from the ground surface to approximately 25' in each of four locations (denoted in Figure #1), prior to the installation of nested monitoring wells (see Section II for borehole logs). The boreholes were drilled by Diamond Drilling using 6" and 8" diameter solid stem augers. The borehole was advanced behind the split spoon sampler through the water-table aquifer contained in a surficial fill layer until the hole was several feet into a dark gray-brown clay below the fill. At this time a 6" or 8" casing was driven or pushed into the gray-brown clay. Care was taken to obtain a watertight seal, preventing contaminant migration from the surficial water-table aquifer into the confined aquifer below the clay. Before penetrating the sands of the confined aquifer below the clay, the casing and hole were augered out and bailed to remove any oilsoaked debris or fill from the hole. Thus no slug of contaminated water was introduced into the lower aguifer. While solvent odors

and discolored water were noted during drilling through the watertable aquifer, no solvent odor was noted in the soil samples below the gray-brown clay.

## Monitoring Well Installation

The well nests, at each of the four locations illustrated in Figure 1, conformed to the specifications illustrated in Figures 2A and 2B. Each well nest consisted of:

- 1) A deep well (numbered 201-204) screened at approximately 19'-24' depth in the confined red-brown fine sand and silt aquifer below the gray-brown clay layer. Graded Moire gravel was emplaced around the well screens to one foot above the screen and a one-foot-thick granular bentonite seal was poured above the gravel pack. To isolate the well screen, the annular space above the bentonite seal was filled with cement grout emplaced in two pours initially using a tremie pipe. The casing driven into the gray-brown clay remains in place, sealing the water-table aquifer above the gray-brown clay from the red-brown sand and silt aquifer.
- 2) Drilled next to the deep well, a shallow well (numbered 101-104) was installed, screened through the saturated surficial fill layer of the water-table aquifer that varied from 4' to 10'-6" thick. Care was taken to screen the shallow monitoring well 6" above the water-table to intercept any floating layer on the water-table.

A locking steel cap was set in cement over the top of the riser pipe that was fitted with a screw cap.

A breather hole was drilled at the top of the riser pipe to allow the well to provide a true response to barometric pressure.

Each well was developed using a diaphragm pump and three well volumes were removed from each of the wells. A clear discharge could not be obtained from the shallow wells but was obtained from the deep wells.

### Quality Control

Quality control samples were taken of all additives to the well: gravel pack, cement and granular bentonite. These samples were not, however, screened for impurities as an analysis protocol had not been defined by the NJDEP. Soil augers were cleaned between holes with a steam jenny, and all casing introduced into the boreholes was similarly cleaned. The depth of wells was measured along with other vital statistics after construction. Concern was repeatedly raised by the NJDEP representative as to the consistency of cement used in backfilling the wells. The driller was prevailed upon to mix the cement to specifications. Locking caps, affixed to the wells, assured sample integrity.

## Water Level Measurements:

On May 18, 1984, and May 31, 1984, water levels were taken from the top of the inner casing of each well, using a steel tape. These water levels are plotted on Table 1 below:

ble 1	.•	SUMMA	RY OF MON	ITORING WE	IL CONSTRU	CTION/WAT	ER LEVEL M	EASUREMI	INTS		
ent		CENTRAL ST	EEL DRUM C	OMPANY	-		Measured	ъу	John B	ee, C.P	.G
catio	n	704 Doremu	s Avenue		÷		Measured	w/	Steel	tape	
		Newark, N.	J		<u> </u>		Measuring	point	Top of	inner	casing
	WELL DIAM. inches)	TOP OF OUTER CASING ELEV. (feet)	STICKUP	TOP OF INNER CASING ELEV. (feet)	STICKUP	TOTAL CASING/ SCREEN LENGTH (feet)	BOTTOM OF WELL FROM GL (feet)	SCREEN SETTIN (specs	Ģ		REMARKS
	2"	. ——••	1.0			22.7	21.0	18'-23	1	Lock	affixed
_01	411		3.1			5.9	2.9	1'-4'		Lock	affixed
2	2"		3.0			26.6	23.8	19'-24	.'	Lock	affixed
.02	4"		1.3			10.4	9.4	6"-9"	6.11	Lock	affixed
03	411		0			24.4	24.4	22'-27		Lock	affixed
03	4"		4			3.8	4.2	6"-5"	6"	Lock	affixed
04	4"	•	.8			25.8	25.2	20'-25	51	Lock	affixed
04	4"		1.8			11.0	9.4	6"-10	)'6"	Lock	affixed
ATE	TIME to	WELL #	PUMP RATE O	TIME	ELEV. TOC	D.T.W.	ELEV. WATER LEVEL	<u>s</u>	t		REMARKS x. Depth Wat ow GL (feet)
<b>1</b> 8/8	4 083.5	201				7.00					6.00
731/8	4 1032		•			6.35					5.55
18/8	4 0840	101				4.59 3.48					2.85 .31
/18/8	4 0805	202	•	•		9.45					6.45
31/8	4 0905					8.88					6.15
/18/8	4 0800	102-	,			1.89 .48					-0.64 + .64
31/8	34 0915	203				5.94					6.24
<u>_</u> /31/8	34 0920	103				0.1					0.1
/18/8	84 0832	204				5.63					4.83
31/8/ز	34 1024					5.05					4.55
/18/8	34 0820	104				2.52					.77

#### **FINDINGS**

#### Soils:

The soils identified on the site form three major horizontal divisions:

- 1) A loose, black-to-dark brown, sandy, silty, clay fill with occasional to frequent fine to medium gravel. This fill layer blanketed the whole site and appeared oil soaked at locations 203/103 and 204/104. The layer varied in depth from four feet at location 201/101 to 12 feet at 204/104 and comprised the water-table aquifer. This fill layer rested unconformably upon a clay layer.
- layer was the only transition that changed appreciably with location at the site. In Borehole 204, where the fill was only four feet thick, a gray-brown sandy, silty clay was observed above the black or dark brown to dark gray silty clay that was present in all boreholes. This dark gray-brown clay was from seven feet to 13 feet thick, depending upon location. The base of the clay was consistently found at 17 to 20 feet below ground level.

The gray-brown clay, while containing occasional roots, was cohesive and smearing and formed intact seals with the drilling casing employed, and appeared to function as an

aquitard. The boreholes were consistently dry in this horizon. The transition into a red-brown sand and silt aquifer below was marked in Boreholes 201, 203, and 204 by a dark brown organic, spongy, clay silt some 3-6 inches thick, above a dark gray or brown to gray-green silty fine sand to silty clay some 1-2 feet thick.

3) At approximately 20 feet below ground surface throughout the site, a confined red-brown fine sandy silt to silty fine sand aquifer was encountered.

#### Groundwater:

From water levels taken in the nested piezometers installed in the water-table aquifer and in the confined aquifer, a differential head was consistently noted in all well nests. The potentiometric head in the shallow aquifer was three feet higher in the shallow aquifer at 101 than in the deep aquifer at 201, six feet higher in 102 and 103, and four feet higher in 104. Thus groundwater would tend to move down through the clay aquitard at a rate determined by the differential heads and hydraulic conductivity of the clay.

Contouring of the potentiometric heads in the aquifers, to determine flow direction, awaits surveying of the elevation and location of the well heads of the monitoring wells.

## Unconsolidated Monitor Well Specifications

			·
Name:	Central Steel Drum		<b>-</b>
tation:	Newark		
lativii.	•		- :
Date:	May 16-18, 1984		<u>,                                      </u>
ý	a de Mich Bedleck		S Sanal Carina
St	eel Cap With Padlock	-	Length of Steel Casing Securely Set In Cement
	Cap		
	Air Vent		1
,	All vent	Н	2 Feet
			1
ļ	The manifest of the second		Ground Surfac
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		<b>.:</b> /≣	1' Cement Collar
	4" PVC Casing		
ļ	sch. 40 equiv		3" Casing Seal - granular bento
	or greater		ite slurry (1.5 lb/gal potab
			water)
	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		
	<b>:</b> <u>}</u>		Coupling (Threaded)
· /			Marie de la companya de la companya de la companya de la companya de la companya de la companya de la companya
			·
	4" Well Screen		
	slot size 20		
•	_5_ Feet		Clean Sand/Gravel Pack + Appropriate size for screen
			extending 1" above
•	8 " Bore Hole		well screen.
			<u>.</u>
			· · · · · · · · · · · · · · · · · · ·
	<u>+</u> <u> </u>		·
•	Bottom Cap		-
	BB(fom cap		

NOT TO SCALF,

Modified to collect floating layer @ water table

## Unconsolidated Monitor Well Specifications

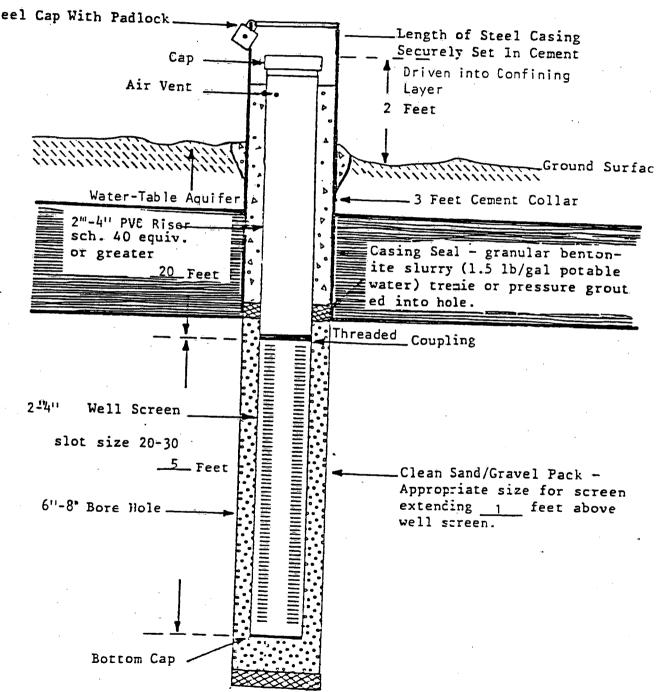
Location: Newark

Date: May 16-18, 1984

Steel Cap With Padlock

Cap

Length of Steel Cap Securely Set 1



Modified to seal off screen from water-table aquifer

## KEY TO GRAPHIC LOG SYMBOLS



GRAVEL



VERY COARSE SAND



COARSE SAND



MEDIUM SAND



FINE SAND



VERY FINE SAND



SILT



CLAY

*****	Sheet   of _
	-
Project: CENTRAL STEEL DRUM Job : E916 Dr	ill Hole : 101
Site Area: 704 DORENUS AVE, NEWARK ELEVALION (12)	Casing):
Contractor: DIAMOND DRILLING Driller: Lou Elevation (Of Gro	
Elevation for ord	,, ·
Classified By: John BEE Date: 5/17/84	24 Rrs.: 2.85'
BELDUCEOUND DY: 45	3 4 2 / 30 "
Coordinates N/S: 74° 07′ 23″ Ex: 45	
Permit :: 26-6740 Permitting Agency: NJDEP	E TABLE
Method of Drilling: Sould STEM AUGER INTO WATER  METHOD OF DRILLING: NESTED WITH # 201 (SEE	WELL LOG)
Additions To Borehole (Bentonite, etc.): Moile CRAVEL	# 1,2,3,4 CEMENT
Additions To Borehole (Bentonite, etc.)	
Drilling Reagent Blank (DR): YES AC SAMPLE HELD WELL CONSTRUCTION	
OD/ID Diameter of Casing: None Material:  Length Left In F	ole:
OD/ID Diameter of Riser Pipe: 4" DIAM Material: Put	
netter of Screen: 5 170	
Distance Top of Casing to Bottom of Screen Length, Size, and Type: 3' F2on 1-4' DEPTH, 4"  Screen Length, Size, and Type: 3' F2on 1-4' DEPTH, 4"	1'-4' (DF.
Packing - Type: MoiRE GRAVEL # 1,2,3,4 Amount:	
Distance Top of Casing to Water Table (DTW) 4.59	(2.85' BELOW al)
Submerged Well Volume:Pumpin	g Rate: ICPM
Volume of Well Purged: 3 WELL 0000	
Promo Used: BRICAS STATION, DIAPHRACH PUMP	Stable:
- Specific Conductance of Pumped Water - Initial:	Stable:
Temperature of Pumped Water - Initial:	

## ENVIRONICS INC. WELL LOG

PROJECT CENTRAL STEEL DRUM	DRILL HOLE # 201
TOU TOU DORENUS AVENUE, NEWARK	DRILLING CONTRACTOR DIAMOND DELLING
08 = E 916	DRILLING METHOD SOLID STEM AUGER W/CASING TO
LOLOGIST JOHN BEE	
WELL CONSTRUCTION & ~ 0	PERMIT # 26 - 6739 AGENCY NIDER
WELL CONSTRUCTION & TO SO SO SO SO SO SO SO SO SO SO SO SO SO	COORDINATES
	QUALITY CONTROL 6
OREHOLE #251 6" 24'	ADDITIONS TO WELL TEL STATE CONTROL
RISER PIPE 2" 18+1' PVC	
ASING 6" 9+1 STEEL V	GRANULAR 16-17'
SCREEN SLOT 20 2" 5' PVC V	GRAVEL PACK SIZE MoIRE #1,2,3,4 17-24' ✓
LEVATION	CEMENT TREMIED IN 0-16' V
TOC(MSL) GROUND ELEV	COMMENTS &C SAMPLE HELD LOCKED V
DEPTH TO WATER 6' STATIC ELEV	CLEANING BETWEEN HOLES AUGER SPOON STERM CLEANED
SOIL DESCRI	PTION
DENSITY OR CONSISTA	nematiko
SOIL TYPE-ACCI	TICH COMP. TICH SI
N G 2 G 2 Z C M M P P M	GROUND WATER
SI 2464 20 BLACK SANDY SILTY CLA	2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2
FINE TO HEDUNG COAVE	Y FILL W WATER @ 27" 20 SLOT FILE OF THE
2° × 52 11 2° -4'	STATIC WATER 2.85
	BELOW GI SIRIRY DENO 4
HAMMER 18 GRAY BROWN SILTY, SANI	
ST WH 24 BLACK TO DARK GRAY SI	STATIC WATER 6:00 BELOW GL
	ERY WHOLE AUGERED TO 8' PUSHED
E A 35 WH 24 CONSCIUS COSO	
X SC WH 24	CLAY BOREHOLE DRY AUGERED
, nH'	OUT 4'- 17', GOOD SEAL.
- x S7   1   24   -	
, so	
- 1 SO 1222 24 6 ORGANIC TRANSITION ZONE	E FINE SAUDY
-17 CLAY SILT @ 16'6"	BOREHOLE MOIST BELOW 17.
DARY CORY SULTY SULES	
DARK GRAY SILTY FINE SANDY S	To the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
X SII & RED BROWN FINE SANDY S	STRUCK WATER @ 20'
RED BROWN FINE SANDY S  CLAY, MOIST W/ ALTERNAT	ING BANDS SCREEN SET 18 - 23'
x SIZ 779 21 OF RED BLOWN SILTY FINE	SAMP 26-219" MOIRE GRAVEL 24-17'
: -:/4,	BENTONITE GRANULAR SEAL 16-17' - 2 25'

## MUNITURING WELL CLASSIFICATION CONTRA

Project: CENTRAL STEEL DRUM Job #: E916 Drill Hole #: 102
Site Area: 704 DORERUS AVE, NEWARK Elevation (Top of Casing):
Contractor: DIAMOND DRILLING Driller: Lou ONTEK
Elevation (Of Ground):
Classified By: JOHN BEE Date: 5/16/84
GNL 0 Hrs.: 24 Hrs.:
Coordinates N/S: 74 07 23" EN: 40 42 30"
Permit #: 26-6738 Permitting Agency: N1D69
Method of Drilling: Sould Stem Augel Into Water TABLE
AQUITER NESTED WITH # 202 (SEE WELL LOG)
Additions To Borehole (Bentonite, etc.): MoiRE GRAVEL, CEMENT
Drilling Reagent Blank (DR): YES , QC SAMPLE HELD
WELL CONSTRUCTION
OD/ID Diameter of Casing: NonE Material: -
Length Left In Hole: —
OD/ID Diameter of Riser Pipe: 4" DIAM Material: PK
Distance Top of Casing to Bottom of Screen: 10.4
Screen Length, Size, and Type: SCREEN 9'LONG ROM 9'6" 6" CEMENT 6"- MOUNDE
Packing - Type: SLUMPED GRANULAR FILL AMOUNT: 9'6"-6" (DR)
WELL DEVELOPMENT
Distance Top of Casing to Water Table (DTW) 1.89' (.64' BELOW GL)
Submerged Well Volume:
Volume of Well Purged: 3 were vounts Pumping Rate:   Gon
Pump Used: BRIGGS & STRATTON DIAPHRACH PUMP
Specific Conductance of Pumped Water - Initial: Stable:
Temperature of Pumped Water - Initial: Stable:

## ENVIRONICS INC. WELL LOG

	JEC	CE	NT	RAL STEEL DRUM	DRILL HOLE #	202	
<b>-</b>	ATI	704	4 ]	POREMUS AVENUE, NEWARK	DRILLING CONTRA	CTOR DIAMOND DRILLING	
	-		116		DRILLING METHOD	SOLID STEM AUGER W/CASING	To
	106	1ST -	041	BEE		R, CASED OFF, AUGERED INTO 2	
E	LL	CONST	RUC	TION & 2 2	PERMIT # 26- 6	737 AGENCY NIDEP	
				TION TO SO SO SO SO SO SO SO SO SO SO SO SO SO	COORDINATES N	/5 74 07 23 E/W 40 41	2′ 30″
				- 2 2 X X	QUALITY CONTR	30L 46	Profe
		LE # 2	02	6" 25'	ADDITIONS TO WEL	ROL STATE STATE	P. T.
	ER P	IPE		2" 19+3' PVC	BENTONITE	GRANULAK 17-18" V	<del></del>
	ING		_	6" 14+3' SCH.40 \	GRAVEL PACK SIZE	moire #1,2,3,4 18-25'	
TC R	EEN	SLOT	2	0 2" 5' PVC √	CEMENT	TREMIED IN +1 - 17'	
	VATI	DN MSL)		GROUND ELEV	COMMENTS	LOCKED 🗸	
			ATE		CLEANING BETWEE	N HOLES AUGER V SP	0 0 N
-	T -	<del></del>	Τ	6-43		STEAM	
		LON		SOIL DESCRIPTI	) N	REMARKS	90
	3	RA1 TAN	6			0454404	y #
	4 2	NE T 818	, R	SOIL TYPE-ACCESS	RIES	GEOLOGIC DATA	02 = 0,202
DE	9 A	9 E E	Ξ			GROUND WATER STEEMS 1-25	5 2 4
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	Sı		FRO			TER 0 6" =	片。
				FILL OCCASIONAL I"GRAVE	L, WET STA	TIC WATER @ 0.64 BELONGE	
					5/18/	S4 ,0805 IN # 102	
<del>-</del>							. 2
×	SZ	1111	4			TIC WATER 0 645' [.	E) - A
-	ļ.	•				# 202 = 1.	16.3
		Ì				1,3	·e:
				<u>9'8"</u>	DROVE	CASING TO 10, BAILED HOLE	4 5 4
_ x	53	2322	4	DARK BROWN CLAYEY SILT	D SILTY DAY	SPOON HOLE TO 18' DROVE -	
		322		CLAY, W/ ROOTS, COMESIVE, S	1 .	G To 14' BAILED HOLE	
×	54	1233	1.	MOIST TO WET	To 13	2'5" DRILLED OUT DRY	
	Ì	<sup>23</sup> 3	6			INGS TO 18' CLOOD SEAL	
×	55	1123	15	STRONG ORGANIC SOLVENT	ODOR		-
•		_		W 14-18, FIGIST			
X	56	<sup>32</sup> 58	6	17'9"	CROW	CUTTINGS ON AUGER 179"	
				LIGHT GRAY BROWN SILTY	NE SAND	CONTINUES ON MULE	
·×	57	MEKHA.	6	20 MOIST		20 SLOT PVE THEFADED	
Į,	58			<u> </u>	Scale	EN SET @ 19'- 24'	<del>] -</del> . E
	٥٦		20	RED BROWN SILTY FINE SAND	MOIST W/ MOIRE	E GRAVEL 25'- 18'	]: 12
×	59	3245	1.7	4" BAND RED & GRAY MOTTLE	D MEDIUM BENT	ONITE GRANULAR SEAL 17-18"	<b>寸∵∵</b>
<u> </u>	!	-75	! • /	- SAND @ 23'			1 <sub>25</sub> , 247

Steet of of
Project: CENTRAL STEEL DRUM Job #: E916 Drill Hair #: 103
Site Area: 704 Do REMUS AVE, NEWARK Elevation (Top of Casin: :
Contractor: DIAMOND DRILLING Driller: Lou ONTEX
Elevation (Of Ground):
Classified By: John BEE Date: 5/18/84
GVL O Hrs.: 24 Rrs.:
Coordinates N/S: 74° 07′ 23″ EN: 40° 42′ 30″
Permit #: 26-6744 Permitting Agency: NJDEP
Method of Drilling: Sould STEM AUGER INTO WATER THBLE
ARMITER, NESTED WITH #203 ( SEE WELL LOW)
Additions To Borehole (Bentonite, etc.): Toile GRAVEL, CENT
Drilling Reagent Blank (DR): YES, QC SAMPLE HELD
WELL CONSTRUCTION
OD/ID Diameter of Casing: None Material:
Length Left In Hole:
OD/ID Diameter of Riser Pipe: 4" DIAM Material: PVC
Distance Top of Casing to Bottom of Screen: 3.8
Screen Length, Size, and Type: 5 FT LONG FROM 5"-5"6", 30 S-07 PVC
Packing - Type: Noire Graver #1 + Stumpermount: (DR)
CRANILAR FILL WELL DEVELOPMENT
Distance Top of Casing to Water Table + · I
Submerged Well Volume:
Volume of Well Purged: 3 WELL USWAES Pumping Rate: GPM
Pump Used: BRIGGS & STRATTON, DIAPHRAGA PUMP
Specific Conductance of Pumped Water - Initial: Stable:
Temperature of Pumped Water - Initial: - Stable: -

## ENVIRONICS INC. WELL LOG

DARK GROWN SILTY CLAY WITH  STATE WATER  SOLD STEM PRICE DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  STATE WATER  STATE WATER  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WITH  DESCRIPTION  REMARKS  DARK GROWN SILTY CLAY WORTH  TO IS MOLE MICE DAY.  TO SEAL OFF WATER SEGN. GROWN  REMARKS  DARK GROWN SILTY CLAY WORTH  TO IS MOLE MICE DAY.  TO SEAL OFF WATER  SERVE WATER  SENTENTICE DORR DAY OF MICE WATER  RED BROWN SILTY CLAY WORTH  NO SOLVENT ODOR D 20 IN SOILS  PLAY SIGN  RED BROWN SILTY CLAY WORTH  NO SOLVENT ODOR D 20 IN SOILS  RED BROWN SILTY CLAY WORTH  NO SOLVENT ODOR D 20 IN SOILS  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  NO SOLVENT ODOR DAY OF MICE WATER  RED BROWN SILTY CLAY WORTH  NO SOLVENT ODOR DAY OF MICE WATER  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  RED BROWN SILTY CLAY WORTH  REMARKS  DAY 122 1 10 10 10 10 10 10 10 10 10 10 10 10 1	ROJECT CENTRAL STEEL DRUM	DRILL HOLE # 203
DRILLING METHOD, SOLLD STEM PALGERO INTO 200 ARM  FELL CONSTRUCTION  OREHOLE MORINAL 8" 28" - DAV. YES  SIGNED BLOOK STEM FIFE  4" 4" -11" PVC YES  SIGNED BLOOK STEM FIFE  A" 4" -12" PVC YES  SIGNED BLOOK STEM FIFE  CRAMMAR AND ALTER STATIC ELEV  COMBENTS OF CAMERA HALD LOCKED YES  SOIL DESCRIPTION  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  SOIL DESCRIPTION  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD LOCKED YES  STEAM  COMMENTS OF CAMERA HALD  COMMENTS OF CAMERA HALD  COMMENT	OCATION 704 DOREMUS AVE., NEWARK	DRILLING CONTRACTOR DIAMOND DRILLING
PERMIT P 26-6743 ASENCY NUMBER  CORRINATES M/S 74 07 23 E/W 40 42 30 OUALITY CONTROL  OREHOLE NORMAL 8" 28" - ADDITIONS TO WELL  SER PIPE 4" 14-12" PVC YES  SERIOR BETTONITE GEARMURAX 19-20" VES  CREEN SLOT 30 48 22-27" PVC YES  CREEN SLOT 30 48 22 32 40 48 22-27" PVC YES  CREEN SLOT 30 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40 48 22 32 40		DRILLING METHOD SOLID STEM AUGER W/CASING
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SOIL DESCRIPTION  DENSITY OR CONSISTANCY) COLOR  SOIL TYPE-ACCESSORIES  CHEMICAL COMP.  GEOLOGIC DATA GROUND WATER  CROWND WATER  STATIC (P. 18 SCOUND C. 1023 TO SEAL OF LORNO C. 102 TO SAMDY, SILTY, GRANULAR FILL  DIL SOAKED GROUNDWATER  STATIC (P. 18 SCOUND C. 1023 TO SEAL OF LORNO C. 102 TO SAMDY, SILTY, GRANULAR FILL  DIL SOAKED GROUNDWATER  STATIC (P. 18 SCOUND C. 1023 TO SEAL OF LORNO C. 102 TO SAMDY, SILTY CLAY, WITH  DARK BROWN SILTY CLAY, WITH  TO 15', HOLE AUGGRED TO 14',  ROOTS, MOIST  TO SEAL OFF UPPER AGUIFER:  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMDE SR SS 1.2  20  3" THICK DARK BROWN ORGANIC  SEAL OF LORNO C. 102 TO SAMD C. 102 TO SAMDY.  SEAL.  SEAL.  CEMENT TREMED IN 0 - 19'  TO SAMDY SILTY CLAY, MOIST  TO SEAL OFF UPPER AGUIFER:  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMDE SR SS 9. GOOD  SEAL.  TO SEAL OFF UPPER AGUIFER:  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMDE SR SS 9. GOOD  TO SEAL OFF UPPER AGUIFER:  NO SOLVENT ODOR @ 20' IN SOILS  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY THEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'-21', MOIRE GRAVEL@ 20'-22'  SAND ALTERNATING WITH FINE  22'-27', MOIRE GRAVEL@ 20'-22'  TOOK SAND SILTY TIEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'-21'  SAND ALTERNATING WITH FINE  22'-27', MOIRE GRAVEL@ 20'-22'	DEPIN TO WATER	
DENSITY OR CONSISTANCY) COLOR  SOIL TYPE-ACCESSORIES  GEOLOGIC DATA  GROUND WATER  2"LAYER OF 1" DIAM. CAUSHED STONE  STATIC PI BELONG FORM O-10'  SANDY SILTY, GRANULAR FILL  OIL BOAKED CROUNDWATER  10 SANDY SILTY, GRANULAR FILL  OIL BOAKED CROUNDWATER  12 10 BEON GL SILIY CHAY, WITH WITH HOLE @ 10' DROVE EASING  ROOTS, MOIST  TO SEAL OFF UPPER AGUIEFE:  PUMPED OIL DEGRIS FROM  CASED HOLE: HOLE DRY.  X 57 2 CASED HOLE: HOLE DRY.  X 58 12 12 20  3" THICK DARK BROWN ORGANIC  TRANSITION 20NEQ 18'9"  NO SOLVENT ODOR BO 20' IN SOILS  A 2 1 2 2 2 3 5 1	Z DESCO	DEMARKS
SOIL TYPE-ACCESSORIES  GEOLOGIC DATA  GROUND WATER  2"LAYER OF 1" DIAM. CAUSHED STONE  STATIC LIFE BLOOM FLOW OF 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F A V S	
STATIC OF BELLOW GE STORE SOLVENT ODOR FROM O-10'  SAMDY, SILTY, GRANGLAR FILL OIL SOAKED GLOWNDWATER  BELLOW GE STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24'  STATIC WATER @ 6.24		15%
STATIC OF BELLOW GE STORE SOLVENT ODOR FROM O-10'  SAMDY, SILTY, GRANGLAR FILL OIL SOAKED GEOLUDWATER  O 10'  SAMDY, SILTY, GRANGLAR FILL OIL SOAKED GEOLUDWATER  O 10'  SAMDY, SILTY, GRANGLAR FILL OIL SOAKED GEOLUDWATER  O 10'  SAMDY, SILTY, GRANGLAR FILL  O 10'  SAMDY SILTY CLAY, WITH  WITH HOLE @ 10' DROVE LASING  ROOTS, MOIST  DARK BROWN SILTY CLAY, WITH  WITH HOLE @ 10' DROVE LASING  ROOTS, MOIST  TO 15' HOLE AUGRED TO 14'  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMPLE SE(S9, GOOD)  SEAL.  CEMENT TREMIED IN D-19'  TRANSITION ZONE@ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY CLAY, MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL@ 20-28'	A N N N N N N N N N N N N N N N N N N N	GROUND WATER
S   1   2   10		STATIL @ . I BELOW GL = 103 = 104
S   1   2   10	-X SI 9 20 DARK GRAY TO BLACK,	OIL SOAKED SOLUENT ODOR FROM 0-10
22   10	SANDY, SILTY, GRANG	
22   10	- x   52   47 <sub>3</sub>   10   -	
BELOW GL 5 31 14 94 15 15 15 16 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	- 5	
# 203    12 g/ # 203    13   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPER AGUIFER:   TO SEAL OFF UPPE	-    ',   <sub>-</sub>	STATIC WATER (# 6:24
TO SEAL OFF UPPER AGUIFER:  IN SECTION SILTY CLAY WITH WITH HOLE @ 10' DROVE EASING  ROOTS, MOIST TO 15', HOLE AUGRED TO 14'  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMPLE S8 (S9. GOOD  SEAL.  CEMENT TREMED IN D - 19'  TRANSITION ZONE @ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'-  SAND ALTERNATING WITH FINE 22'-27' Moire GRAVEL 20-28'  SAND ALTERNATING WITH FINE 22'-27' Moire GRAVEL 20-28'	- 0 54 2	
DARK BROWN SILTY CLAY WITH WITH HOLE @ 10' DROVE EASING  ROOTS, MOIST  TO 15'. HOLE AUGKED TO 14'  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMPLE 58(S9. Good)  SEAL.  X S7 12 20  3" THICK DARK BROWN ORGANIC BENTONITE SEAL EMPLACED 19'-20'  TRANSITION 20NE@ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  X S1 4  O 21'10" GRAY GREEN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'-2'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL@ 20'-28'	'a	
ROOTS, MOIST  TO 15', HOLE AUGRED TO 14',  PUMPED OIL DEBRIS FROM  CASED HOLE: HOLE DRY.  TOOK SAMPLE 88 (S9. GOOD)  SEAL.  CEMENT TREMIED IN 0-19'  TRANSITION ZONE @ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM  A" DIAM, 30 SLOT SCREEN SET @ 12'.  SAND ALTERNATING WITH FINE  22'-27' MOIRE GRAVEL @ 20'-28'	x S5 5 0 - DARK BROWN SILTY C	
TOOK SAMPLE 58 (59. GOOD  SEAL.  CEMENT TREMIED IN 0-19'  TRANSITION ZONE @ 18'9"  TRANSITION ZONE @ 18'9"  No Solvent odor @ 20' IN SOILS  TRANSITION ZONE @ 18'9"  No Solvent odor @ 20' IN SOILS  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 22':  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL @ 20'-28'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL @ 20'-28'	-10 ROOTS, MOIST	TO 15' HOLE AUGERED TO 14'
TOOK SAMPLE 58 (59. GOOD  SEAL.  CEMENT TREMIED IN 0-19'  TRANSITION ZONE @ 18'9"  TRANSITION ZONE @ 18'9"  No Solvent odor @ 20' IN SOILS  TRANSITION ZONE @ 18'9"  A SI 4 O ZI'10" GRAY GREEN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 22':  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRMEL@ 20'-28'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRMEL@ 20'-28'	x   56   2 <sub>2</sub>   15	
SEAL.  CEMENT TREMED IN 0-19'  3" THICK DARK BROWN ORGANIC BENTONITE SEAL EMPLACED 19'-20'  TRANSITION 20NE @ 18'9"  No SOLVENT ODOR @ 20' IN SOILS  24  25  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL 20'-28'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL 20'-28'		
CEMENT TREMED IN 0-19'  212  X S9 12  Z0  3" THICK DARK BROWN ORGANIC  TRANSITION 20NE@ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  Z0'  X S10 1  Z0'  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY MEDIUM  A" DIAM, 30 SLOT SCREEN SET @ 22'  SAND ALTERNATING WITH FINE  22'-27' MOIRE GRAVEL@ 20'-28'  SAND ALTERNATING WITH FINE  22'-27' MOIRE GRAVEL@ 20'-28'	x   57   2   15	
- X S9 12 20 3" THICK DARK BROWN ORGANIC BENTONITE SEAL ENPLACED 19'-20'  TRANSITION ZONE @ 18'9"  NO SOLVENT ODOR @ 20' IN SOILS  22 4 20'  NO SOLVENT ODOR @ 20' IN SOILS  RED BROWN SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 22'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL 20'-28'  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL 20'-28'		
TRANSITION ZONE ( 18'9"  12 24 TRANSITION ZONE ( 18'9"  NO SOLVENT ODOR ( 20' IN SOILS TO SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET ( 122"  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL ( 20'-28' - 121)	- x   38   1 <sub>212</sub>   20	CEMENT TREMED IN 0-14
TRANSITION ZONE ( 18'9"  1224  20'  NO SOLVENT ODOR ( 20' IN SOILS )  21'10" GRAY GREEN SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET ( 122")  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL ( 20'-28' )	- x S9 1 70 =	20 Tanas Can Factor 19'-20'
No SOLVENT ODOR @ 20' IN SOILS		
RED BROWN SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 122"  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVELE 20-28'	- x SIOI 24 - TRANSITION ZONE @ 18	
RED BROWN SILTY CLAY MOIST  RED BROWN SILTY TEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 12211  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVELE 20-28'	-2d   <sup>2</sup> 2 4   <del>20</del>	130 3000011, 000000
RED BROWN SILTY MEDIUM 4" DIAM, 30 SLOT SCREEN SET @ 122"  SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVEL@ 20-28'		TY CLAY MOIST
SAND ALTERNATING WITH FINE 22'-27' MOIRE GRAVELE 20-28'	- S9 RED BROWN SIL	
V 6.7	SAND ALTERNATING W	THE PINE 22'-27' MOIRE GRAVELE 20-28'
SANDY CLAYEY SILT @ 25 8- 26, BARE HOLE COMPLETED	x 513 4 LUZ SANDY CLAYEY SILT @	25'8"- 26', RACE HOLE COMPLETED

## MONITORING WELL CLASSIFICATION COLLEGE

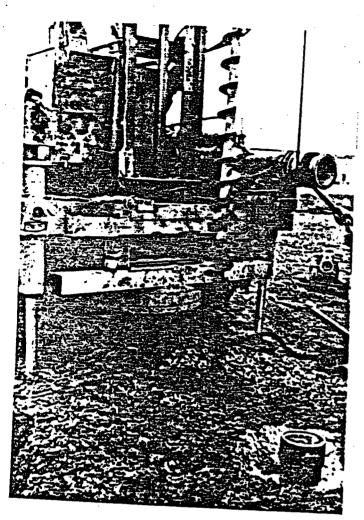
Sheet \_\_ of \_\_

Project: CENTRAL STEEL DRUM Job :: E916 Drill Hole :: 104
Site Area: 704 Dorenus Ave, NewArk Elevation (Top of Casing):
Contractor: DIAMOND DRILLING Driller: Lou ONTEK
Elevation (Of Ground):
Classified By: John BEE Date: 5/17/84
GVL 0 Hrs.: 24 Hrs.:
Coordinates N/S: 74° 07' 23 EN: 40° 42' 30"
Permit #: 26-6742 Permitting Agency: NJDEP
SO STEW ANCIES INTO WATER TABLE
Method of Drilling: SOCID STEM TRUCK THE ZOU (SEE WELL LOG)
Additions To Borehole (Bentonite, etc.): Noire GRAVEL, CEMENT
Drilling Reagent Blank (DR): YES, QC SAMPLE HELD
Drilling Reagent Blank (DR). WELL CONSTRUCTION
OD/ID Diameter of Casing: NowE Material:
OD/ID Diameter of Riser Pipe: 4"D.AM Material: Puc
Distance Top of Casing to Bottom of Screen: 11
Screen Length, Size, and Type: 10 LONG ROM 6-106" 30 SLOT, PUC, 4"DIA
Packing - Type: MOIRE GRAVEL " 1 + SLUMPEDAMOUNT: 6"-10" CEMENT 6"+1"(DR)  GRANULAR FILL  WELL DEVELOPMENT
Distance Top of Casing to Water Table(DTW) 2.52' (.77 BFLOW GL)
Submerged Well Volume:
Volume of Well Purged: 3 war vounts Pumping Rate: 1997
Pump Used: BRIGGS & STRATTON DIAPHRAGM PUMP
Specific Conductance of Pumped Water - Initial: - Stable: -
Temperature of Pumped Water - Initial: Stable:

# ENVIRONICS INC. WELL LOG

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DRILLING CONTRACTOR DIAMOND DRILLING  DRILLING METHOD SOLID STEM AUGER W/CASING  DECLOSIST JOHN BEE  TO CONFINING LAYER, CASED OFF, AUGERED INTO 2ND  PERMIT = 26-6741 AGENCY NJDEP  COORDINATES N/S 74° 07' 23" E/W 40° 42' 30"  OUALITY CONTROL  DOREHOLE NOMINAL 8" 25" - ADDITIONS TO WELL 8"  ADDITIONS TO WELL 8"  ADDITIONS TO WELL 8"		TRAL STEEL DRUM	DRILL HOLE	20	4
DEFINITE CONTROL  SOURCE STORY AND SEE  TO COMPANING LAYER, CASED OFF, AUGERED INTO 2 MA ARUSERS  WELL CONSTRUCTION  WELL CONSTRUCTION  WELL CONSTRUCTION  OREHOLE  MORIMAN 8" 26"	LOCATION 704	DOREMUS AVE., NEWARK	DRILLING C		
WELL CONSTRUCTION  WELL CONSTRUCTION  WELL CONSTRUCTION  ORENOLE  NOTION STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORMAN STORM	POB # E 9	16			
CORRESPINATION  CORRESPINATION  COORDINATES N/S 74" of 72" ** FIV 40" 42" 30"  COORDINATES N/S 74" of 72" ** FIV 40" 42" 30"  COORDINATES N/S 74" of 72" ** FIV 40" 42" 30"  COORDINATES N/S 74" of 72" ** FIV 40" 42" 30"  ADDITIONS TO WELL  SERIEN SLOT 30 4" + 12" 20" PVC YES  SERIEN SLOT 30 4" 20" 25" PVC YES  SERIEN SIZE TOIRE 25" TREMED IN +3-17'  COMMENTS QC SAMPLES HELD LOCKED V  CLEANING BETWEEN HOLES AUGER SPOON V  SOIL DESCRIPTION  REMARKS  COMMENTS QC SAMPLES HELD LOCKED V  SOIL TYPE-ACCESSORIES  COMMINITION OF COUNTY FILL, NITHY PLASTIC  SILTY CLAY FILL, NITHY PLASTIC  SILTY CLAY FILL, NITHY PLASTIC  SILTY CLAY FILL, NITHY PLASTIC  CRANULAR BLACK FILL @ 3", WET  MATER @ 4-13" SEAM Q.  SILTY CLAY FILL, NITHY PLASTIC  CRANULAR BLACK FILL @ 3", WET  MATER @ 4-13" SEAM Q.  SILTY CLAY FILL WITH PLASTIC  SIEFEY, OF20 M 20"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10", WATER Q. 11"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AUGCED CASING TO 10"  AU	SEOLOGIST JOI	HN BEE	TO CONFIN	VING LAYER, CASED OFF	, AUGERED INTO 2NE
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SCREEN SLOT 30 4" ZO-25' PUC YES  CEMENT TREMICE IN 49-17'  CEMENT TREMICE IN 49-17'  CEMENT TREMICE IN 49-17'  COMMENTS QC SAMPLES HELD LOCKED V  DEPTH TO WATER 483' STATIC ELEV  CLEANING BETWEEN HOLES AUGER SPOON V  SOIL DESCRIPTION  REMARKS  CHEMICAL COMP.  GEOLOGIC DATA  GROUND REMARKS  CHEMICAL COMP.  GEOLOGIC DATA  GROUND WATER STICKUP 175' PLANTY  CROUND WATER STICKUP 175' PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL, NITH PLANTY  SILTY CLAY FILL SILTY PLANTY  MALE SEC AS ING OUT.  SILTY CLAY WING SAMPY, SILTY  MOLE DRY, SULTION IN RUSH  CLAY WING SAMPY, SILTY  MOLE DRY, SULTION IN RUSH  CLAY WING SAMPY, SILTY  MOLE DRY, SULTION IN RUSH  CLAY WING SAMPY  SILTY CLAY FILL SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY FILL SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMPY  SILTY CLAY WING SAMP	ASING	8" 4.8-15' STEEL YES	BENTONITE	GRANULAR	
CEMENT TREMEDIN 43-17 V  TOCUSE)  DEPTH TO WATER 4:83' STATIC ELEV  SOIL DESCRIPTION  DENSITY OR CONSISTANCY)' COLOR  SOIL TYPE-ACCESSORIES  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  CHEMICAL COMP.  C			GRAVEL PÄC	K SIZE MOIRE	25-18'
TOCKISL)  GROUND ELEV  DEPTH TO WATER 4:83' STATIC ELEV  SOIL DESCRIPTION  SOIL DESCRIPTION  BENSITY OF CONSISTANCY)' COLOR  GEOLOGIC DATA  GROUND WATER STICKUP 1771  SOIL TYPE-ACCESSORIES  GROUND WATER STICKUP 1771  SOIL TYPE-ACCESSORIES  GROUND WATER STICKUP 1771  SILTY CLAW FILL, WITH PLASTIC  SILTY CLAW FILL, WITH PLASTIC  GRANULAR BLACK FILL 23', WET  WATER 24 4:2' 66 AUGUST A 204  SILTY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY FILL WITH PLASTIC  SIETY CLAY TO CLAY TO CLAY TO CLAY TO CLAY TO CLAY WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC WITH PLASTIC W		4" 20-25 PUE YES	CEMENT	TREMIED IN	+9-17'
SOIL DESCRIPTION  REMARKS  CHEMICAL COMP.  GEOLOGIC DATA  GROUND WATER STIKKUP PASTIC  SILTY CLAY FILL, WITH PLASTIC  SILTY CLAY FILL, WITH PLASTIC  GRANULAR BLACK FILL Q 3', WET  CASS 23 44 4  DROVE CASING TO 10, WATER Q11  X S5 1101  DROVE CASING TO 10, WATER Q11  X S5 1111  DROVE CASING TO 10, WATER Q11  X S7 1111  DARK GRAY FINE SANDY, SILTY  HOLE DRY, SUCTION IN RUSH  CLAY W/FREGUENT ROOTS, MOIST  N PULLING AUGERS - GOODSBAL  18'2"  DARK BROWN 3' ORGANIC LAYERQ SET 4" DIAM, 30 SLOT PVC  18'2"  REMARKS  CHEMICAL COMP.  GEOLOGIC DATA  GROUND WATER COMP.  GEOLOGIC DATA  GROUND WATER STIKKUP PASTIC  S/18/84, 0132 IN #109  SILTY CLAY FILL, WITH PLASTIC  S/18/84, 0132 IN #109  SILTY CLAY FILL Q3', WET  WATER Q 4.83' 66 Mug  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/18/84, 0132 IN #109  S/		GROUND FIFV	COMMENTS 6	20 SAMPLES HELDLOCK	ED V
SOIL DESCRIPTION  REMARKS  DENSITY OF CONSISTANCY) COLOR SOIL TYPE-ACCESSORIES  CHEMICAL COMP. GEOLOGIC DATA GROUND WATER STICKUP 175 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 202  TO A 20	DEPTH TO WATE				
SOIL DESCRIPTION  REMARKS  CHEMICAL COMP.  GEOLOGIC DATA GROUND WATER STICKUP 1-75  A 2-24  DARK BROWN TO BLACK, SANDY  SILTY CLAY FILL, WITH PLASTIC  CRANULAR BLACK FILL @ 3', WET  CRANULAR BLACK FILL @ 3', WET  A 2-44  DARK BROWN TO BLACK SANDY  SILTY CLAY FILL, WITH PLASTIC  SIPPLY OF 20 M 2-04  SILTY CLAY FILL WITH PLASTIC  SIPPLY OF 20 M 2-04  SIPPLY OF 20 M 2-04  SIPPLY OF 20 M 2-04  SIPPLY OF 20 M 2-04  SIPPLY OF 20 M 2-04  TO DROVE CASING TO 10', WATER @ 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY WING CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY WING CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO 15', AUGUST CLAY TO	7 7	4-83			SPOUN V
DENSITY OR CONSISTANCY) COLOR  SOIL TYPE-ACCESSORIES  CHEMICAL COMP.  GEOLOGIC DATA GROUND WATER STICKUP 175  SILTY CLAY FILL, WITH PLASTIC  SILTY CLAY FILL, WITH PLASTIC  GRANULAR BLACK FILL @ 3', WET  CRANULAR BLACK FILL @ 3', WET  AUGERED CASING OUT. WET MY  STILL DROVE CASING OUT. WET MY  STILL DARK GRAY FINE SANDY, SILTY HOLE DRY, SUCTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS—GOODSFAL  SILTY CLAY SILTY PINESAND, WET  STILL BROWN 3' ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  18'6"  RED BROWN FINE SANDY  SURFER @ 20'-25'  DARK BROWN 5' ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  18'6"  SURFY MEDIUM GRAY SILTY FINESAND, WET  SURFER @ 20'-25'  SURFY MEDIUM GRAY SILTY FINESAND, WET  SURFER @ 20'-25'  SURFY MEDIUM GRAY SILTY FINESAND, WET  SURFY MEDIUM GRAY SILTY FINESAND, WET  RED BROWN FINE SANDY  CLAYER SILT W/OCCASIONAL					
SOIL TYPE-ACCESSORIES  GEOLOGIC DATA GROUND WATER STICKUP 175  A SET 244 6  DARK BROWN TO BLACK, SAMDY WATER @ 77 BELOW G. SILTY CLAY FILL, WITH PLASTIC SIEVE CLAY FILL, WITH PLASTIC  FRAGMENTS, DRY. CHANGE TO GRANULAR BLACK FILL @ 3', WET  WATER @ 4.83' Grow g.  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  MATER @ 4.83' Grow g.  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 20 Y  SIPERY OF 20 M 2	A A N C	. 1	i	REMARKS	90
CROUND WATER STIKKUP 175   100    X S1 2244 6 DARK BROWN TO BLACK SANDY WATER @ 17 BELOW Q V VI DARK SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0132 M # 104    SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0132 M # 104    SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0132 M # 104    FRAGMENTS, DRY. CHANGE TO SILE/24, 0132 M # 104    WATER @ 4-23 BELOW Q V VI DARK SILE/24    SIE/24, 0132 M # 204    WATER @ 4-23 BELOW Q V VI DARK SILE/24    SIE/24, 0132 M # 204    SIE/24, 0132 M # 204    DROVE CASING TO 10, WATER @ 17 W A MAGERED CASING OUT. WET WITH SILE WATER OF THE SANDY SILTY HOLD FREQUENT ROOTS, MOIST ON PULLING ANGERS GOODSBAL SILTY SILTY FINESAND, WET SILTY SILTY FINESAND, WET SILTY FINESAND, WET CLAYER @ SET 4" DIAM., 30 SLOT PVC 18/6"    RED BROWN FINE SANDY CLAYER @ SET 4" DIAM., 30 SLOT PVC 20/4"    RED BROWN FINE SANDY CLAYER @ SET 4" DIAM., 30 SLOT PVC 20/4"    RED BROWN FINE SANDY CLAYER @ SET 4" DIAM., 30 SLOT PVC 20/4"    RED BROWN FINE SANDY CLAYER @ SET 4" DIAM., 30 SLOT PVC 20/4"    RED BROWN FINE SANDY CLAYER @ SET 4" DIAM., 30 SLOT PVC 20/4"    RED BROWN FINE SANDY CLAYER & SILTY FINESANDY CLAYER & SILTY WOCCASIONAL	PLE ETR 18T	4 1		CHÉMICAL COMI	۰. این
SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0832 M # 109  SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0832 M # 109  SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0832 M # 109  GRANULAR BLACK FILL @ 3', WET  WATER @ 4.83' BROWN & S/18/24, 0832 M # 109  WATER @ 4.83' BROWN & S/18/24, 0832 M # 109  WATER @ 4.83' BROWN & S/18/24, 0832 M # 109  WATER @ 4.83' BROWN & S/18/24, 0832 M # 109  WATER @ 7/18/24, WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER @ 7/18/24  WATER		SOIL TYPE-ACCES	SORIES		7/09 1
SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0832 IM # 109  SILTY CLAY FILL, WITH PLASTIC 5/18/24, 0832 IM # 109  GRANULAR BLACK FILL @ 3', WET  WATER @ 4.83' & 66.00 Q	12			GROUND WATER	STICKUP 1.75
SILTY CLAY FILL, WITH PLASTIC 5/18/84, 0832 IN # 109  FRAGMENTS, DRY. CHAMGE TO  GRANULAR BLACK FILL @ 3', WET  WATER @ 4.83' BELONG  S/18/84, 0832 IN # 109  WATER @ 4.83' BELONG  S/18/84, 0820 IN # 204  WATER @ 4.83' BELONG  S/18/84, 0832 IN # 109  WATER @ 4.83' BELONG  S/18/84, 0832 IN # 109  WATER @ 4.83' BELONG  S/18/84, 0832 IN # 109  WATER @ 4.83' BELONG  S/18/84, 0832 IN # 109  WATER @ 4.83' BELONG  DROVE CASING TO 10', WATER @ 15'  AUGERED CASING OUT.  WET MY  STANDAY  TO PROVE CASING TO 10', WATER @ 15'  AUGERED CASING OUT.  SSTANDAY  TO PROVE CASING OUT.  WATER @ 4.83' BELONG  TO PROVE CASING TO 10', WATER @ 15'  AUGERED CASING OUT.  WATER @ 4.83' BELONG  TO PROVE CASING TO 10', WATER @ 15'  AUGERED CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING TO 10', WATER @ 15'  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  TO PROVE CASING OUT.  T	· X SI 7244 6	DARK BROWN TO BLACK	< <4-10-2	A	- V. I.
TRAGMENTS, DRY. CHAMGE TO  GRANULAR BLACK FILL Q 3', WET  WATER Q 4.83' BROWG V 10 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	,	SILTY CLAY FULL WITH	PLASTIC		
CRANGLAR BLACK FILL @ 3', WET  WATER @ 4.83'86000	x 52 5566 6			3/14/84 0832 IN " 10	
WATER @ 4-83'8 FLOW G. SILTY FINES ANDY  STORY OF STATE STANDY  STANDARD STANDARD  WATER @ 4-83'8 FLOW G. STANDY  SILTY WILLIAM STANDY  STANDARD STANDARD  WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  SILTY WATER @ 4-83'8 FLOW G. STANDY  CLAYEY SILTY WATER G. STANDY  CLAYEY SILTY WATER G. STANDY	·	- GRANWAR RI AM EN . C			——————————————————————————————————————
SINGLE A SINGLE AND SINGLE SANDY  X SO I I I I I I I I I I I I I I I I I I	-x 53 2344 1/2			1. MED D 11.63 85.	, T. S. P.
DROVE CASING TO 10, WATER Q IT IN ALLERED CASING OUT. WET MY OF ALLERED CASING OUT. WET MY OF ALLERED CASING OUT.  X S7 III, 4 DARK GRAY FINE SANDY, SILTY HOLE DRY, SULTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING ANGERS - GOODS GAL  X S9 III, 3 FROM 12-15', DRY 15'- 18'  X S9 2 2 34 19 DARK BROWN 3'ORGANIC LAYER @ SET 4" DIAM., 30 SLOT PVC  18'6" SCREEN @ 20'- 25'  X S10 4768 10 20'6 MEDIUM GRAY SILTY FINESAND, WET  X S11 9 118 12 RED BROWN FINE SANDY  CLAYEY SILT W/OCCASIONAL	* 1 1 1				
AUGERED CASING OUT. WET BY TO DROVE CASING OUT. WET BY TO DROVE CASING OUT.  X S7 1 1 1 4 DARK GRAY FINE SANDY, SILTY HOLE DRY, SULTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  X S9 2 2 3 4 19 DARK BROWN 3 ORGANIC LAYER SET 4" DIAM. 30 SLOT PVC  18'6"  X S1 6 4 7 6 8 10 20'6 MEDIUM GRAY SILTY FINESAND, WET  SCREEN @ 20'- 25'  CLAYEY SILT W/OCCASIONAL	× 34 7546 4			S[16]64 , 0820 IN - 2	
X 56 11 1 6 Augered Casing out. WET BY TO DROVE CASING OUT. WET BY TO DROVE CASING OUT. WET BY TO DROVE CASING OUT.  X 57 1 1 1 4 DARK GRAY FINE SANDY, SILTY HOLE DRY, SULTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  X 59 2 2 34 19 DARK BROWN 3 ORGANIC LAYER SET 4" DIAM. 30 SLOT PVC  18'6"  X 510 4768 10 20'6  RED BROWN FINE SANDY  CLAYEY SILT W/OCCASIONAL	v 861				
AUGERED CASING OUT. WET BY TO DROVE CASING OUT.  X S7 111 4 DARK GRAY FINE SANDY, SILTY HOLE DRY, SULTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  X S9 2234 19 DARK BROWN 3" ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  18'6" SCREEN @ 20'- 25'  X S10 4768 10 20'6  RED BROWN FINE SANDY  CLAYEY SILT W/OCCASIONAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DROVE CASING TO 10	WATER OF LY
DROVE CASING INTO CLAY TO  IS' AUGERED CASING OUT.  DARK GRAY FINE SANDY, SILTY HOLE DRY, SUCTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  FROM 12'-15', DRY 15'- 18'  DROVE CASING INTO CLAY TO  IS' AUGERED CASING OUT.  HOLE DRY, SUCTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  A S9 2 2 34 19  DARK BROWN 3' ORGANIC LAYER @ SET 4" DIAM., 30 SLOT PVC  18'6"  SCREEN @ 20'- 25'  WINT  STILL BY OCLASIONAL	x 56 1.			AUGERED CASING OU	T. WET
DARK GRAY FINE SANDY, SILTY HOLE DRY, SULTION IN RUSH  CLAY W/FREQUENT ROOTS, MOIST ON PULLING AUGERS-GOODSEAL  FROM 12-15', DRY 15-18'  DARK BROWN 3"ORGANIC LAYER® SET 4" DIAM., 30 SLOT PVC  18'6"  SCREEN @ 20'- 25'  RED BROWN FINE SANDY  CLAYEY SILTY W/OCCASIONAL	,,,,,	13'		DROVE CASING INTO	CLAY TO
S8 1 1 1 3 CLAY W/ FREQUENT ROOTS, MOIST ON PULLING ANGERS - GOODSBAL  X S9 2 2 34 19 DARK BROWN 3 ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  18'6" SCREEN @ 20'- 25'  X S11 9 10 RED BROWN FINE SANDY  CLAYEY SILT W/ OCCASIONAL	x 571.			15' AUGERED CASING	OUT.
X S9 2234 19 DARK BROWN 3"ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  I8'6"  X S11 9 10 20'6  RED BROWN FINE SANDY  CLATEY SILT W/OCCASIONAL	11,	DARK GRAY FINE SAND	Y. SILTY	HOLE DRY, SULTION	IN RUSH
X S9 2234 19 DARK BROWN 3"ORGANIC LAYER @ SET 4" DIAM. 30 SLOT PVC  18'6"  X 610 4768 10 - 20'6 MEDIUM GRAY SILTY FINESAND, WET  X SII 9 11 118 12 RED BROWN FINE SANDY  CLATEY SILT WOCCASIONAL	× 58 1	CLAY W/ FREQUENT KOO	TS, MOIST		
X 510 4768 10 -19'6 MEDIUM GRAY SILTY FINESAND, WET SCREEN @ 20'- 25'  X SII 4 11 118 12 - RED BROWN FINE SANDY  CLATEY SILT W/OCCASIONAL			8'		
X 510 4768 10 -196 MEDIUMGRAY SILTY FINESAND, WET SCREEN @ 20'- 25'  X SII 9 11 118 12 - RED BROWN FINE SANDY  CLATEY SILT WOCCASIONAL	x 5922				
× 510 4768 10 -19'6 MEDIUMGERY SILTY FINESAND, WET SCREEN @ 20'- 25'  X SII 9 11 118 12 - RED BROWN FINE SANDY  CLATEY SILT WOCCASIONAL	-34 19	DARK BROWN 3 ORGANIC	LAYER @	SET 4" DIAM. 30 SLO	OT PVC
X SII 9 11718 12 RED BROWN FINE SANDY 21.	x 5104-	18 6	l l		
X SII 9 11 12 RED BROWN FINE SANDY -21.	68 10	20%	D, WET		PCD.
X S/2	x 511 4.	- 000 822 54 5			
X S/2	11/17/12	CLANE SAND	24		121.
TO THE SAME WET BANDS	x  5/2	FINE SAME	IONAL		
		WET BANK	>2	•	ויויד =



Date/Time: May 18, 1984 12:10

Photographer: John Bee

Location: Central Steel Drum

Camera: 35 mm Lens: Automatic

Remarks: Example of granular

Fill, on Solid Stem Augers

0-8', Borehole 203

Date/Time: May 17, 1984; 0945

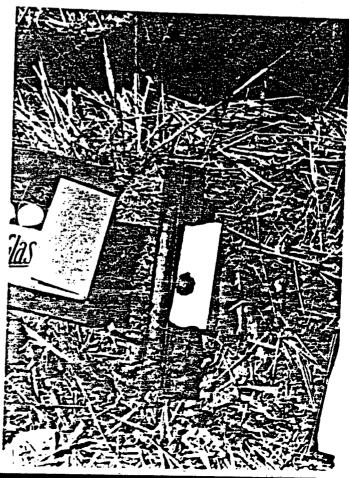
Photographer: John Bee

Location: Central Steel Drum

Camera: 35 mm

Lens: Automatic

Remarks: Example of Dark Gray Silty Clay, Cohesive, Smearing from 6' to 17' in Borehole 201





Date/Time: May 17, 1984 10:30

Photographer: John Bee

Location: Central Steel Drum

Camera: 35 mm Lens: Automatic

Remarks: Example of Red Brown
Silty Fine Sand from 20-21'9"

Borehole 201

Date/Time: May 17, 1984 10:45

Photographer: John Bee

Location: Central Steel Drum

Camera: 35 mm

Lens: Automatic

Remarks: Example of Red Brown,

Fine Sandy Silt, Trace Clay

from 22'-24' Borehole 201



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Appendix A
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aphthene olein

lonitrile

irin - Dieldrin Aldrin Leldrin

:imony

enic Jestos

tene

nzidine

llium

.Jmium\*\*

oon Tetrachloride

Lordane

orinated Benzenes onochlorobenzene rrichlorobenzenes Tetrachlorobenzene (1,2,4,5) entachlorobenzene

dexachlorobenzene orinated Ethanes

hloroethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1,1-Trichloroethane

,1,2-Trichloroethane ,1,1,2-Tetrachloro-

ethane 1,1,2,2-Tetrachloroethane

Pentachloroethane Bexachloroethane

orinated Naphthalenes

orinated Phenols
-Chlorophenol
-Chlorophenol
-Ja-Dichlorophenol
-J-Dichlorophenol

2,6-Dichlorophenol
3,4-Dichlorophenol
2,4,5-Trichlorophenol

2,4,6-Trichlorophenol 2,3,4,6-Tetrachloro-

phenol
2,3,5,6-Tetrachlorophenol

t-Hethyl-4-chlorophenol/ 3-Hethyl-4-chloro-

phenol B-Methyl-6-chloroChloroalkyl Ethers
Bis (chloromethyl)
ether
Bis (2-chloroethyl)
ether
Bis (2-chloroisopropyl)

Chloroform

2-Chlorophenol

ether

Chromium Trivalent Bexavalent

Copper

Cyanide (free CN)

DDT and Hetabolites

TDE

Dichlorobenzenes

Dichlorobenzidines

Dichloroethylenes 1,1-Dichloroethylene 1,2-Dichloroethylene

2,4-Dichlorophenol

Dichloropropanes

Dichloropropenes

2,4-Dimethylphenol

2,4-Dinitrotoluene

1,2-Diphenylhydrazine

Endosulfan

Endrin

Ethylbenzene

Fluoranthene

Baloethers

Balomethanes
Bromomethane
Chloromethane
Dichloromethane
Bromodichloromethane
Tribromomethane
Dichlorodifluoromethane
Trichlorofluoromethane
Tetrachloromethane (See
Carbon Tetrachloride)
Mirtures of halomethanes

Beptachlor

Bexachlorobutadiene

Bexachlorocyclopentadiene

Isophorone

Lead\*\*

Hercury

Naphthalene

Nickel\*\*

Ritrobenzene

Nitrophenols

Mononitrophenol

Dinitrophenol

Trinitrophenol

2,4-Dinitro-o-cresol

Nitrosamines
N-Nitrosodimethylamine
N-Nitrosodiethylamine
N-Nitrosodi-n-butylamine
N-Nitrosodiphenylamine
N-Nitrosopyrrolidine

Pentachlorophenol

Phenol

Phthalate Esters
Dimethyl Phthalate
Diethyl Phthalate
Dibutyl Phthalate
Di-2-ethylhexyl Phthalate

Polychlorinated Biphenyls (PCBs)

Polynuclear Aromatic Eydrocarbons (PAEs)

Selenium Selenite (inorganic) Selenate (inorganic)

Silver

Tetrachloroethylene

Thallium

Toluene

Toxaphene

Trichloroethylene

Vinvl Chloride

## Bacteriological and Chemical Testing 399 Stuyvesant Avenue

Irvington, N.J. 07111



IEW KLEIN, M.S., Director

Telephone 201-373-8007

CKSON DRIVE VEORD, NJ

07016

E SUBMITTED: WED. NOVEMBER 21, 1984

ILLED WATER - TRIP BLANK #84811 TRAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, NJ

ALL RESULTS ARE <10. PARTS PER BILLION.

#### PESTICIDES/PCE'S

A-ENDOSULFAN

HA-BHC

HEPTACHLOR EF

ENDOSULFAN SL

DDE

TACHLOR

TA-BHC

TA-BHC

CHLORDANE

4.4'DDD AROCHLOR 1232
HEPTACHLOR EPOXIDE AROCHLOR 1254
ENDOSULEAN SULFATE AROCHLOR 1016
DELTA-BHC AROCHLOR 1242
DIELDRIN ENDRIN ALDEHYDE
4.4'DDT AROCHLOR 1221
CHLORDANE AROCHLOR 1248
TOXAPHENE AROCHLOR 1260

RIN

## Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111



Telephone 201-373-8007

ENVIRONICS 46 JACKSON DRIVE CRANFORD, NJ 07016

SAMPLE SUBMITTED: WED. NOVEMBER 21, 1984

	RESULTS ARE IN MG/L.
WELL WATER #204 #84818 aCENTRAL STEEL DRUM 704 DOREMUS AVENUE , NEWARK, NJ	
ANTIMONY	0.96
CADMIUM	0.02
LEAD	<0.2
SELENIUM	<0.001
ZINC	0.04
CHROMIUM	<0.02
ARSENIC	0.002
MERCURY	<0.0002
SILVER	<0.02
BERYLLIUM	<0.01
COPPER	0.09
NICKEL	0.23
THALLIUM	0.39
CYANIDE	0.0036
PHENOLS	.0.005

Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111



THEW KLEIN, M.S., Director

Telephone 201-373-8007

RONICS JACKSON DRIVE NFORD, NJ

07016

WELL WATER #204 #84818 aCENTRAL STEEL DRUM-704 DOREMUS AVENUE, NEWARK,

MPLE SUBMITTED: WED. NOVEMBER 21, 1984

### VOLATILE DRGANIC ANALYSIS BY GC/MS

POUND	RESULT	COMPOUND	RESULT
OROMETHANE	<1.0	TRANS-1,3 DICHLOROPROPENE	<1.0
OMOMETHANE	<1.0	TRICHLOROETHYLENE	<1.0
HLORODIFL <b>UOROMETHANE</b>	<1.0	DIBROMOCHLOROMETHANE	<1.0
NYL CHLORIDE	<1.0	1,1,2 TRICHLOROETHANE	<1.0
OROETHANE	<1.0	CIS-1,3, DICHLOROPROPYLENE	<1.0
HYLENE CHLORIDE	<1.0	BENZENE	<1.0
?ICHLOROFLUOROMETHANE	<1.0	2-CHLOROETHYLVINYL ETHER	<1.0
DICHLOROETHYLENE	<1.0	BROMOFORM	<1.0
.1 DICHLOROETHANE	<1.0	1,1,2,2 TETRACHLORDETHANE	<1.0
NS-1,2 DICHLOROETHYLENE	<1.0	TETRACHLOROETHYLENE	<1.0
OROFORM	<1.0	TOLUENE	<1.0
, 2 DICHLOROETHANE	<1.0	CHLOROBENZENE	<1.0
,1 TRICHLOROETHANE	<1.0	ETHYLBENZENE	<1.0
ARBON TETRACHLORIDE	<1.0	ACROLEIN	<100.
DMODICHLOROMETHANE	<1.0	ACRYLONITRILE	<100.
2 DICHLOROPROPANE	<1.0		<b>\100.</b>

RESULTS ARE IN MICROGRAMS/LITER (PARTS PER BILLION).

= LESS THAN, NONE DETECTED.

YSIS PERFORMED BY PURGE AND TRAP GAS CHROMATOGRAPHY/MASS SPECTROMETRY.

Bacteriological and Chemical Testing 399 Stuyvesant Avenue

Irvington, N.J. 07111

HEW KLEIN, M.S., Director

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ONICS JACKSON DRIVE NFORD.

07016

SUBMITTED: WED. NOVEMBER 21, 1984

ALL RESULTS ARE <10.0 PARTS PER BILLION

WATER #204 #84818 ENTRAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, **NEW JERSEY** 

#### 46 base/neutral extractable organics

ichlorobenzene nloroethane 4 Trichlorobenzene thalene

benzene omophenyl phenyl ether

n-octyl phthalate butyl phthalate benzyl phthalate

ysene acenė b(k)fluoranthene

enzo(a,h)anthracene

Dichlorobenzidine Diphenyhydrazine litrosodiphenylamine trosodi-n-propylamine

1.3 Dichlorobenzene Hexachlorobutadiene

2 Chloronaphthalene

2,4 Dinitrotoluene bis(2-Ethylhexxyl)phthalate

Dimethyl phthalate Acenaphthylene

Fluorene Pyrene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(g,h,i)perylene

Hexachlorobenzene bis(2-Chloroethoxy)methane

Isophorone

2,6 Dinitrotoluene

1,4Dichlorobenzene

diethyl phthalate

Acenaphthene Fluoranthène Phenanthrene

Benzo(b)fluoranthene Indeno(1,2,3-c,d)pyrene 4 Chlorophenylphenyl

ether

bis(2-Chloroethyl) ether

Benzidine Hexachlorocyclopentadiene

N-Nitrosodimethylamine

bis(2-Chloroisopropyl)ether

### 11 acid extractable organics

Dinitrophenol Chloro-m-cresol 6 Trichlorophenol

2 Nitrophenol 4.6 Dinitro-o-cresol .. 2 Chlorophenol

2.4 Dimethylphenol

4 Nitrophenol Pentalchlorophenol 2.4 Dichlorophenol

Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111



EW KLEIN, M.S., Director

RONICS JACKSON DRIVE

FORD.

NJ

07016

PLE SUBMITTED: WED. NOVEMBER 21, 1984

WATER #204

#84818

ENTRAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, NJ

ALL RESULTS ARE <10. PARTS PER BILLION.

### PESTICIDES/PCB'S

PHA-ENDOSULFAN

4,4'DDD

ARUCHLUR 1232

Telephone 201-373-8007

HA-BHC

HEPTACHLOR EPOXIDE

ARDCHLUR 1254

MMA-BHC

ENDOSULEAN SULFATE

AROCHLOR 1016

DDE.

DELTA-BHC

AROCHLOR 1242

TACHLOR

DIELDRIN

ENDRIN ALDEHYDE

TA-ENDUSULFAN

4,4'DDT

ARDCHLUP 1221
AROCHLOR 1248

A-EHC

CHLORDANE

\_DRIN

TOXAPHENE

ARRICHLUR 1260

DRIN

## GARDEN STATE LABORATORIES, INC. Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111

EW KLEIN, M.S., Director

Telephone 201-373-8007

ENVIRONICS 46 JACKSON DRIVE CRANFORD, ИJ 07016

SAMPLE SUBMITTED: WED. NOVEMBER 21, 1984

	RESULTS ARE IN MG/L.
WELL WATER #203 #84819 @CENTRAL STEEL DRUM-704 DOREMUS AVENUE, NEWARK, NJ	
ANTIMONY	0.90
CADMIUM	0.02
LEAD	<0.2
SELENIUM	<0.001
ZINC	0.05
CHROMIUM	<0.02
ARSENIC	0.010
MERCURY	<0.0002
SILVER	<0.02
BERYLLIUM	<0.01
COPPER	0.10
NICKEL	0.23
THALLIUM	0.39
CYANIDE	0.0028
PHENOLS	0.009

Bacteriological and Chemical Testing

399 Stuyvesant Avenue

Irvington, N.J. 07111



ATHEW KLEIN, M.S., Director

Telephone 201-373-8007

RONICS
JACKSON DRIVE
NFORD, NJ

07016

WELL WATER #203 #84819 aCENTRAL STEEL DRUM-704 DOREMUS AVENUE, NEWARK, NJ

MPLE SUBMITTED: WED. NOVEMBER 21, 1984

### VOLATILE DRGANIC ANALYSIS BY GC/MS

	RESULT	COMPOUND	RESULT
POUND COMETHANE	<1.0	TRANS-1,3 DICHLOROPROPENE	<1.0
TOMOMETHANE	<1.0	TRICHLOROÉTHYLÉNE	<1.0
THLORODIFLUOROMETHANE	<1.0	DIBROMOCHLOROMETHANE	<1.0
INYL CHLORIDE	<1.0	1,1,2 TRICHLOROETHANE	<1.0
LOROETHANE	<1.0	CIS-1,3, DICHLOROPROPYLENE	<1.0
ETHYLENE CHLORIDE	<1.0	BENZENE	<1.0
I CHLOROFLUOROMETHANE	<1.0	2-CHLOROETHYLVINYL ETHER	<1.0
1 DICHLOROETHYLENE	<1.0	BROMOFORM	<1.0
1,1 DICHLORGETHANE	<1.0	1,1,2,2 TETRACHLOROETHANE	<1.0
ANS-1,2 DICHLOROETHYLENE	<1.0	TETRACHLOROETHYLENE	<1.0
CHLOROFORM	<1.0	TOLUENE	<1.0
2 DICHLOROETHANE	<1.0	CHLORÓBËNZENE	<1.0
1,1 TRICHLOROETHANE	<1.0	ETHYLBENZENE	<1.0
CARBON TETRACHLORIDE	<1.0	ACROLEIN	<100.
ROMODICHLOROMÉTHANÉ	<1.0	ACRYLONITRILE	<100.
1,2 DICHLOROPROPANE	<1.0		•

LL RESULTS ARE IN MICROGRAMS/LITER (PARTS PER BILLION).

< = LESS THAN, NONE DETECTED.

MALYSIS PERFORMED BY PURGE AND TRAP GAS CHROMATOGRAPHY/MASS SPECTROMETRY.

Bacteriological and Chemical Testing 399 Stuyvesant Avenue

Irvington, N.J. 07111



EW KLEIN, M.S., Director

Telephone 201-373-8007

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JACKSON DRIVE

ORD.

NJ

07016

PLE SUBMITTED: WED. NOVEMBER 21, 1984

ALL RESULTS ARE <10.0 PARTS PER BILLION

L WATER #203 #84819

RAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, NEW JERSEY

### 46 base/neutral extractable organics

chlorobenzene

loroethane

Trichlorobenzene

halene

omophenyl phenyl ether

octyl phthalate

outyl phthalate

T benzyl phthalate

acene

(k)fluoranthene

enzo(a,h)anthracene

Dichlorobenzidine Diphenyhydrazine

rosodiphenylamine

oro-m-cresol

rosodi-n-propylamine

Trichlorophenol -

1,3 Dichlorobenzene Hexachlorobutadiene

bis(2-Chloroethoxy)methane

2 Chloronaphthalene

2.4 Dinitrotoluene

Dimethyl phthalate

Acenaphthylene

Fluorene

Pyrene

Benzidine

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(g,h,i)perylene

1,4Dichlorobenzene

Hexachlorobenzene

Isophorone

2,6 Dinitrotoluene bis(2-Ethylhexxyl)phthalate

diethyl phthalate

Acenaphthene Fluoranthene

Phenanthrene

Benzo(b)fluoranthene

Indeno(1,2,3-c,d)pyrene

4 Chlorophenylphenyl

ether

bis(2-Chloroethyl) ether

Hexachlorocyclopentadiene

N-Nitrosodimethylamine

bis(2-Chloroisopropyl)ether

### 11 acid extractable organics

2 Nitrophenol Dinitrophenol

4,6 Dinitro-o-cresol

2 Chlorophenol

2,4 Dimethylphenol

4 Nitrophenol

Pentalchlorophenol

2.4 Dichlorophenol

# Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111



EW KLEIN, M.S., Director

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CONICS CKSON DRIVE

07016

E SUBMITTED: WED. NOVEMBER 21, 1984

WATER #203

#84819

RAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, NJ

### ALL RESULTS ARE <10. PARTS PER BILLION

### PESTICIDES/PCB'S

A-I NDOSULFAN

4,4'DDD

ARUCHLUR 1232

HA-BHC

HEPTACHLOR EPOXIDE

AROCHLUR 1254

ENDOSULEAN SULFATE

AROCHLOR 1016

DDE.

DELTA-BHC

AROCHLOR 1242

PTACHLOŘ

DIELDRIN

[NDRIN ALDEHYDE

-ENDOSULFAN

4,4'DDT

AROCHLOR 1221

TA-EHC

CHLORDANE

AROCHLOR 1248

ŀ

TOXAPHENE

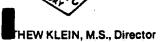
ARRICHLOR 1260

LATO

TE LARGRATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE

## Bacteriological and Chemical Testing

399 Stuyvesant Avenue Irvington, N.J. 07111



Telephone 201-373-8007

**ENVIRONICS** 46 JACKSON DRIVE CRANFORD,

07016

SAMPLE SUBMITTED: WED. NOVEMBER 21, 1984

FIELD BLANK #84820 @CENTRAL STEEL DRUM - 704 DOREMUS AVENUE. NJ	RESULTS ARE IN MG/L.
ANTIMONY	<0.1
CADMIUM	<0.01
LEAD	<0.2
SELENIUM	<0.001
ZINC	<0.01
CHROMIUM	<0.02
ARSENIC	<0.001
MERCURY	<0.0002
SILVER	<0.02
BERYLLIUM	<0.01
COPPER	<0.05
NICKEL	<0.02
THALLIUM	<0.15
CYANIDE	<0.002
PHENOLS	<0.002

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Irvington, N.J. 07111



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RONICS JACKSON DRIVE NFORD.

07016

FIELD BLANK #84820 aCENTRAL STEEL DRUM-704 DOREMUS AVENUE, NEWARK, NJ

PLE SUBMITTED: WED. NOVEMBER 21, 1984

#### VOLATILE ORGANIC ANALYSIS BY GCZMS

POUND	RESULT	COMPOUND	RESULT
LOROMETHANE	<1.0	TRANS-1,3 DÍCHLOROPROPENE	<1.0
MOMETHANE	<1.0	TRICHLOROETHYLENE	<1.0
HLORODIFLUOROMETHANE	<1.0	DIBROMOCHLOROMETHANE	<1.0
INYL CHLORIDE	<1.0	1,1,2 TRICHLOROETHANE	<1.0
OROETHANE	<1.0	CIS-1,3, DICHLOROPROPYLENE	<1.0
ETHYLENE CHLORIDE	<1.0	BENZENE	<1.0
CHLOROFLUOROMETHANE	<1.0	2-CHLOROETHYLVINYL ETHER	<1.0
DICHLOROETHYLENE	<1.0	BROMOFORM	<1.0
,1 DICHLORGETHANE	<1.0	1,1,2,2 TETRACHLOROETHANE	<1.0
ANS-1,2 DICHLOROETHYLENE	<1.0	TETRACHLOROETHYLENE	<1.0
CHLOROFORM	<1.0	TOLUENE	<1.0
2 DICHLOROETHANE	<1.0	CHLOROBENZENE	<1.0
1,1 TRICHLOROETHANE	<1.0	ETHYLBENZENE	<1.0
JARBON TETRACHLORIDE	<1.0	ACROLEÍN	<100.
ROMODICHLOROMETHANE	<1.0	ACRYLONITRILE	<100.
1,2 DICHLOROPROPANE	<1.0		

RESULTS ARE IN MICROGRAMS/LITER (PARTS PER BILLION).

ANALYSIS PERFORMED BY PURGE AND TRAP GAS CHROMATOGRAPHY/MASS SPECTROMETRY.

<sup>&</sup>lt; = LESS THAN, NONE DETECTED.

Bacteriological and Chemical Testing 399 Stuyvesant Avenue Irvington, N.J. 07111



ATHEW KLEIN, M.S., Director

Telephone 201-373-8007

**IRONICS** JACKSON DRIVE RANFORD. NJ

07016

PLE SUBMITTED: WED. NOVEMBER 21, 1984

ALL RESULTS ARE <10.0 PARTS PER BILLION

D BLANK #84820

ENTRAL STEEL DRUM - 704 DOREMUS AVENUE, NEWARK, NEW JERSEY

# 46 base/neutral extractable organics

ichlorobenzene hloroethane 4 Trichlorobenzene thalene

benzene emophenyl phenyl ether -octyl phthalate

butyl phthalate benzyl phthalate 'sene

acenė (k)fluoranthène nzo(a,h)anthracene

Dichlorobenzidine phenyhydrazine trosodiphenylamine osodi-n-propylamine

bis(2-Chloroethoxy)methane 2 Chloronaphthalene 2,4 Dinitrotoluene bis(2-Ethylhexxyl)phthalate Dimethyl phthalate Acenaphthylene Fluorene Pyrene Benzo(a)anthracene

1,3 Dichlorobenzene

Hexachlorobutadiene

Benzo(ġ,h,i)perylene

Benzo(a)pyrene Benzidine

1,4Dichlorobenzene Hexachlorobenzene Isophorone 2,6 Dinitrotoluene diethyl phthalate Acenaphthene Fluoranthene Phenanthrene Benzo(b)fluoranthene Indeno(1,2,3-c,d)pyrene

4 Chlorophenylphenyl ether bis(2-Chloroethyl) ether

Hexachlorocyclopentadiene N-Nitrosodimethylamine bis(2-Chloroisopropyl)ether

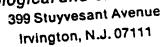
11 acid extractable organics

nitrophenol loro-m-cresol Trichlorophenol

2 Nitrophenol 4,6 Dinitro-o-cresol 2 Chlorophenol 2,4 Dimethylphenol

4 Nitrophenol Pentalchlorophenol 2,4 Dichlorophenol

Bacteriological and Chemical Testing





Telephone 201-373-8007

KLEIN, M.S., Director

ONICS

JACKSON DRIVE

NJ FORD.

07016

LE SUBMITTED: WED. NOVEMBER 21, 1984

D BLANK

DRUM - 704 DOREMUS AVENUE, NEWARK, NJ

ALL RESULTS ARE <10. PARTS PER BILLION.

## PESTICIDES/PCB'S

LPHA-[ NDUSULFAN

PHA-BHC

GAMMA-BHC

4 DDE

EPTACHLOR

ETA-ENDUSULFAN

BETA-EHC .

ALDRIN!

ENDRIN

4,4'DDD

HEPTACHLOR EPOXIDE

ENDOSULEAN SULFATE

DELTA-BHC

DIELDRIN

4,4 DDT

CHLORDANE

TOXAPHENE

ARUCHI UK 1232

AROCHLUR 1254

AROCHILOP 1016

AROCHLOR 1242

ENDRIN ALDEHYDE

AROCHLOR 1221

AROCHLOR 1248

ARCICHLOR 1260

## ATTACHMENT 4

## HISTORICAL SAMPLING RESULTS



#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY

Central Steel Drum

Site Name

NJD011482577

EPA Site ID Number

704 Doremus Avenue
Newark, New Jersey

Address

D2-8511-15

TDD Number

#### SITE DESCRIPTION

Central Steel Drum, which currently occupies the site, reconditions open steel drums received from various industries ranging from food to paint manufacturing. The initial phase of reconditioning involves incineration; this is followed by sand blasting and repainting. Central Steel Drum has been in operation since 1951. Prior to this the site was occupied by an ink manufacturer which is now part of what is known as Inmont Chemical Corporation. The site occupies eight acres.

The NJDEP has closely followed site operations since 1980. Past methods of improper ash disposal include open piles and mixing of ash with on site fill. Ash is currently stored in roll off containers and is manifested under Resource Conservation and Recovery Act (RCRA) law. In addition, state inspection reports record residue from druins received being spilled on the ground.

The site is located in the industrial area on Newark Bay east of the NJ Turnpike and north of Newark International Airport. The site is situated on filled marsh land. The residential area begins 1.5 miles from the site (Ironbound section of Newark). On site drainage ditches feed into Newark Bay and groundwater recharges the industrially used Brunswick aquifer west-northwest of the site.

On February 6, 1986, a site inspection was conducted by NUS Corporation Region II FIT. Four soil, three groundwater, and one surface water sample were collected and analyzed for hazardous substance list (HSL) chemicals.

HAZARD RANKING SCORE:  $S_M = 4.70$  ( $S_{gw} = 3.28$   $S_{sw} = 7.44$   $S_a = 0$ )

SFE = 0

Spc = 0

Prepared by: Daniel Caramagno Date: 2/14/36

1. IDENTIFICATION
OF STATE OF SITE NUMBER
NO. DOLLARS.

POTENTIAL RAZAROOUS WASTE SITE

SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

TT. SITE NAME AND LOCATTO		THE COLUMN THE COMMITTEE	, NO 001148257
	non, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECE	FIG LOCATION IDENTIFIER
Central Steel Orum 03 CITY		704 Doremus Avenue 04 STATE 05 ZIP CODE 06 COU	NTY O7 COUNTY O8 CONG DIS
Newark 09 COORDINATES LATITUDE	LONGITUDE	NJ 07105 Essex 10 TYPE OF OMMERSHIP (Check on X A. PRIVATE B. FEDERAL 0. COUNTY E. MUNICIP	013 10 e)
4 00 4 21	10°. N 7 40 0 7' 3 0°.	G. UNKNOWN	_ F. UIREK
III. INSPECTION INFORMATI	ON 02 SITE STATUS 03 YEARS OF	SAFAAY/A	
2 / 5 / 96	X ACTIVE INACTIVE	1951 / Current BEGINNING YEAR ENDING YEA	R - UNIKNOWA
AGENCY PERFORMING INSPECT	TON (Check all that apply) RACTOR NUS Corporation	C. MUNICIPAL D. MUNICIPA	CONTRACTOR
_ E. STATE _ F. STATE CO	(Name of firm)		(Name of firm)
	(Name of firm)	_ G. OTHER(Spe	cify)
OS CHIEF INSPECTOR	06 TITLE	O7 ORGANIZATION	OB TELEPHONE NO.
Daniel Caramagno O9 OTHER INSPECTORS	Chemical Engineer 10 TITLE	NUS Corporation 11 ORGANIZATION	(201) 225-6160 12 TELEPHONE NO.
Rick Adkisson	Environmental Scientist	NUS Corporation	(201) 225-6160
Richard Pagano	Geologist	NUS Corporation	(201)- 225-6160-
Luke Darragn	Environmental Scientist	NUS Corporation	(201) 225-6160
Don Hessemer	Environmental Scientist	NUS Corporation	(201) 225-6160
· ·	•		
	·		
13 SITE REPRESENTATIVES IN	NTERVIEWED 14 TITLE	15 ADDRESS	
Bruce Doremus	Environmental Consultant	Environics	16 TELEPHONE NO.
	and the district of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first o		(201) 272-3770
Alan Fischer	President	Central Steel Drum 704 Doremus Ave., Newark, NJ	(201) 344-8500
•			
		•	
	•		
17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS	
X PERMISSION WARRANT	0930	Cloudy, 35°F, slight breeze from	om the south
IV. INFORMATION AVAILABLE	FROM		·
UI CUNTACT	02 OF (Agency/Organiz	ation) 03 TELEPHONE NO.	
Diana Messina	U.S. EPA	(201) 321-6685	

OS AGENCY OG ORGANIZATION OF TELEPHONE NO. OR DATE

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

```
WASTE STATES, QUANTITIES, AND CHARACTERISTICS
   OI PHYSICAL STATES (Check all that apply) OZ WASTE QUARTITY AT SITE
                                                                               03 WASTE CHARACTERISTICS (Check all that apply)
       8. PONDER, FINES X F. LIQUID
C. SLUDGE
                                                  (Measures of waste
                                                                                               E. SOLUBLE
                                                                            X A. TOXIC
                                                                                                                 I. HIGHLY VOLATILE
                                                                                                               J. EXPLOSIVE
                                                  quantities must be
                                                                              B. CORROSIVE
                                                                                               F. INFECTIOUS
                                                                              C. RADIOACTIVE
    X
                                                  independent)
                                                                                               G. FLAMMABLE
                                                                            X D. PERSISTENT _ H. IGNITABLE
                                                                                                                 L. INCOMPATIBLE
       D. OTHER
                     Ash
                                                         TONS Unknown
                                                                                                                 M. MOT APPLICABLE
                                                  CUBIC YARDS Unknown
                   (Specify)
                                                 NO. OF DRUMS Unknown
   III. WASTE TYPE
     CATEGORY
                        SUBSTANCE NAME
                                                  O1 GROSS AMOUNT
                                                                      OZ UNIT OF MEASURE
                                                                                                    03 COMMENTS
                        SLUDGE
       SLU
                                                   Unknown
                                                                                                 Ash from drum incineration
                                                                                                 operations is currently stored in
                        OILY WASTE
       OL W
                                                  Unknown
                                                                                                 roll off containers and is
                                                                                                 manifested under RCRA law.
       SOL.
                        SOLVENTS
                                                  Unknown
                                                                                                  to this, sludge was stored in oile
                                                                                                 or spread as fill on site. Other
       PSD
                        PESTICIDES
                                                                                                  substances noted are a result of
                                                                                                 drum residue being spilled on the
       OCC
                        OTHER ORGANIC CHEMICALS
                                                                                                 ground. Another potential source
                                                                                                 of contamination is on site
       IOC
                        INORGANIC CHEMICALS
                                                                                                 painting operations.
       ACD
                       ACIDS
       BAS
                       BASES
      MES
                       HEAVY METALS
                                                  Unknown
 IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)
                                                                                                                       06 MEASURE OF
    CATEGORY
                      02 SUBSTANCE NAME
                                                03 CAS NUMBER
                                                                    04 STORAGE/DISPOSAL METHOD
                                                                                                  05 CONCENTRATION
                                                                                                                       CONCENTRATION
      MES
              Lead
                                                  7439-92-1
                                                                        Unknown
                                                                                                   32,100
      MES
                                                                                                                       mg/kg
               Zinc
                                                  7440-66-5
                                                                        Unknown
                                                                                                      1010
      OCC
                                                                                                                       mg/kg
               1,1,2,2 Tetrachloroethane
                                                  127-18-4
                                                                        Unknown
                                                                                                      5.9
      OCC
                                                                                                                       ug/kg
              Ethylbenzene
                                                   100-41-4
                                                                        Unknown
                                                                                                      5.1
      OCC
               Xylenes
                                                                                                                       19/kg
                                                  1330-20-7
                                                                        Unknown
                                                                                                       32
      SOL
                                                                                                                       ug/kg
              Toluene
                                                  108-88-3
                                                                        Unknown
                                                                                                       46
      SOL
                                                                                                                       ug/kg
              2-Hexanone
                                                  591-78-6
                                                                        Unknown
                                                                                                      5.3
      250
              Chlordane
                                                                                                                       ug/kg
                                                   57-74-9
                                                                        Unknown
                                                                                                   150000
      SQL
              Tetrach loroethene
                                                                                                                       ug/kg
                                                   127-18-4
                                                                        Unknown
                                                                                                     3900
      2ŠD
              4.4-DOE
                                                                                                                       ug/kā
                                                    72-55-9
                                                                        Unknown
                                                                                                      1300
      SOL
              Methylene Chloride
                                                                                                                       ug/kg
                                                   75-09-2
                                                                        Unknown
                                                                                                       115
      SOL
                                                                                                                       ug/kg
              2-Sutanone
                                                   78-93-3
                                                                        Unknown
                                                                                                     3872
     OCC
              Isophorone
                                                                                                                       ug/kg
                                                   78-59-1
                                                                        Unknown
     OCC
                                                                                                      340
              4-Methyl-2-Pentanone
                                                                                                                       uğ/kg
                                                  108-10-1
                                                                        Unknown
     OCC
                                                                                                       14
                                                                                                                       ug/kg
              Styrene
                                                  100-42-5
                                                                        Unknown
                                                                                                       12
     SOL
              Phenol
                                                                                                                       19/kg
                                                  108-95-2
                                                                        Unknown
                                                                                                     <8.7
     OCC
              4-Methyphenol
                                                                                                                       ug/kg
                                                  105-44-5
                                                                        Unknown
                                                                                                      < 20
     OCC
              Benzo (b) Fluoranthene
                                                                                                                       ug/kg
                                                  205-99-2
                                                                        Unknown
                                                                                                    <2000
     SOL
              1.2.4 Trichlorobenzene
                                                                                                                       ug/kg
                                                  120-82-1
                                                                        Unknown
                                                                                                     <220
     OCC
                                                                                                                       ug/kg
              Napthalene
                                                   91-20-3
                                                                        Unknown
     OCC
              2-Methylnaonthalene
                                                                                                     <310
                                                                                                                       ug/kg
                                                   91-57-6
                                                                        Unknown
                                                                                                     120
     000
              Phenanthrene
                                                                                                                       ug/kg
                                                   85-01-8
                                                                        Unknown
                                                                                                     < 200
     OCC
              Fluoranthene
                                                                                                                       ug/kg
                                                  205-44-0
                                                                        Unknown
                                                                                                     <310
                                                                                                                       19/kg
                                                           SEE ATTACHMENT A
V. FEEDSTOCKS (See Appendix for CAS Numbers)
   CATEGORY
                         I FEEDSTOCK NAME
                                                       02 CAS NUMBER
                                                                            CATEGORY
                                                                                              OF FEEDSTOCK NAME
                                                                                                                      OZ CAS YUMBER
     FDS
                            N/A
                                                                               FNS
     FDS
                                                                               FDS
    FDS
                                                                               FDS
    FDS
                                                                              FDS
VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)
```

Malcolm Pirnie Preliminary Assessment of 3/5/85 Site Inspection 2/5/86 - NUS FIT Region II U.S. EPA Contract Laboratory Program Sample Management Office

U.S. EPA Contract Laboratory Program Sample Management Office. Analytical results of samples collected 2/5/86 by NUS

	The language to	- most frequently c	ited CAS Numbers)		
	S SUBSTANCES (See Appendix fo	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05_CONCENTRATION	OS MEASURE OF CONCENTRATION
OCC OCC OCC OCC OCC SOL SOL	Pyrene Chrysene Benzo (b) Fluoranthene Benzo (k) Fluoranthene Benzo (a) Pyrene 1,1-Dichloroethene 1,1,1-Trichloroethane Bromoform	129-00-0 218-01-9 205-99-2 207-08-9 50-32-8 75-35-4 71-55-2 75-25-2	Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown	<300 <190 <550 <270 <310 <2.4 <3.6 <2.4	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg

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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NJ D011482577

II. MAZARDOUS CONDITIONS AND INCIDENTS  OI & A. GROUNDWAYER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: 0	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) POTENTIAL	X ALLEGED
NUDER inspection found drum residue spill stain found spilled drums and stained soil. Groundwa contained numerous contaminants.	s, improper ash disposal and poor ter use is industrial only. Site	housekeeping. Site inspecti groundwater sämples obtained	on of 2/5/36 on 2/5/36
01. x 8. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 0	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) POTENTIAL	X ALLEGED
A drainage ditch leading to Newark Bay was foun contained rusted drums and sludge deposits. Su lowever, there are boating marinas in Jersey Civarious contaminants.	rface water is not used for drink!	no, therefore population af:	'ected 's G.
01 x C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 0	02 X OBSERVED (DATE: 2/8/82 04 NARRATIVE DESCRIPTION	)POTENTIAL	_ ALLEGED
In 1981 NUDEP inspection reported HNU readings violations have been cited by NUDEP. However, copulation is beyond one mile from the site.	in excess of 2000 ppm. Smoke from no air readings above background w	the incinerator was black. ere observed on 2/5/86. Re	Various sidential
01. D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	POTENTIAL	_ ALLEGED
No potential exists.		·· ·	-
01. X E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 0	02 X OBSERVED (DATE: 2/5/96 04 NARRATIVE DESCRIPTION	POTENTIAL	_ ALLEGED
Though site is three quarters fenced, back produces are within one mile, and only worker		open and unattended in busi	ness nours. No
01 x F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 x 08SERVED (DATE: 2/5/96 04 NARRATIVE DESCRIPTION	POTENTIAL	_ ALLEGED
NJDEP inspections found various stains on the consection of 2/5/86 confirmed this.	ground and drums were found leaking	g their contents on the grou	nd. Site
01. G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	POTENTIAL	_ ALLEGED
No potential exists as the source of drinking of	water for Newark is several miles o	distant.	
01 X H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: 110	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) <u>x</u> potential	_ ALLEGED
Potential for exposure exists due to spills and	d contaminated soil.		
	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	•	.*
O1 I. POPULATION EXPOSURE/INJURY O3 POPULATION POTENTIALLY AFFECTED:	OZ OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	) POTENTIAL	_ ALLEGED
No potential exists because the area within a	mile radius of the site is industr	ial.	

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)	02 OBSERVED (DATE:)	X POTENTIAL ALLEGED
DI A J. DAMASE TO PEUTA	-	, -
04 MARRATIVE DESCRIPTION 14 low potential exists as area is industrial in nature.	However contamination of Newark Bay life	may occur as a result of
A low potential exists as area is industries in which in area in industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the industries in the i		
dra meys	·	
	OZ _ OBSERVED (DATE:)	X POTENTIAL ALLEGED
11 I K. DAMAGE TO FAURA 14 NARRATIVE DESCRIPTION (Include name(s) of species)		•, •
24 MARKATTE DESCRIPTION ( a low potential exists as area is industrial in nature,	*hough contamination of aduatic life may o	cour through site drainage.
A low potential exists as area is industrial in nature,		
	02 _ OBSERVED (DATE:)	X POTENTIAL ALLEGED
01 IL. CONTAMINATION OF FOOD CHAIN 74 VARRATIVE DESCRIPTION	UZ _ UBSERVED (UATE:	<u> </u>
	sen life in Newark Ray	
Thow potential exists as surface drainage may contamina	ate inte in newark bay.	•
	02 X 085ERYED (DATE: 3/29/90	) POTENTIA, ALLEGED
OI (M. UNSTABLE CONTAINMENT OF MASTES (Spills/runoff/standing liquids/leaking drums)		1 _ 1012111112 _ 1200000
33 POPULATION POTENTIALLY AFFECTED:	04 MARRATIVE DESCRIPTION	
Incinerator ash was formerly stored on an open concrete	slab. Storage is now in roll off contained	ers at siao area.
incinerator asm was remainly seems of the		
S A SAMPLE TO SECUTE DOUBERTY	02 _ OBSERVED (DATE:	) X POTENTIAL ALLEGED
DI X N. DAMAGE TO OFFSITE PROPERTY DA NĀRRATIVE DESCRIPTION		-
Drainage ditch passes other property in Newark Say area	<del>-</del> L	
urainage dittm passes other property in headily buy sice	•	·
o' x O. CONTAMINATION OF SEWERS, STORM DRAINS, WATPS	on corrover (DATE:	A POTENTIAL ALFEGED
O' X O. CONTAMINATION OF SEMERS, STORM DRAINS, WHIPS	OZ OBSERVED (UNIE.	
Potential exists if neavy rains cause overflow and runo		•
opentia, exists it heavy rains tause over tow and cond	# 1 1 is	
in the same of the same	24 AARTOURS (SATE 3/20/00	) POTENTIAL ALLEGED
01 X P. ILLEGAL/UNAUTHORIZED DUMPING 04 NĀRRĀTIVE DESCRIPTION	02 X OBSERVED (DATE: 3/28/90	_) _ POTENTIAL ALLEGED
NUDEP noted Central Steel Drum as operating a Treatment	-/Stamma/Dienosal (TSD) facility without s	moner authorization. Since
NUDER noted Central Steel Urum as operating a freatment shat sime Central Steel Drum has improved in their com	pliance to RCRA regulations. Sand pile not	ed on Site Reconnaissance
1/30/86 by NUS FIT.	•	
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGI	ED HAZARDS	
Yone		•
•		
	•	
III. TOTAL POPULATION POTENTIALLY AFFECTED: 110 Ce	ntmar Steel Orum Employees Univi	
• • • • • • • • • • • • • • • • • • •		
IV. COMMENTS		
Due to industrial setting the only direct exposure is	to daily workers. Water use in area is ei	ther industrial or non-
existent. Since the NJDEP investigations Central Stee	u urum nas made an errort to improve waste	manifesting and incineration
•	•	
V. SOURCES OF INFORMATION (Cite specific references	e.g. State files, samble analysis, reno	rts)
A MINING A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE C		
Malcolm Pirnie Preliminary Assessment of 3/5/85 . Site Inspection 2/6/86 - NUS FIT Region II	·	
o to the production of all and the transfer of		

-34 FARM 2070-17 :7-41)

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

1. IDENTIFICATION
OI STATE OZ SITE NUPBER
NJ 0011482577

II. PERMIT INFORMATION	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	OS COMMENTS
Ol TYPE OF PERMIT ISSUED (Check all that apply)	OZ PENNII NOPOEX			
_ A. APOES				
_ s. uic				
x C. AIR State Permi:	0067438	08/11/82		Periodic three month renewal
X D. RCRA	NJD011482577	10/09/30		Generator ID Number
_ E. RCRA INTERIM STATUS	·			
F. SPCC PLAN	·			
_ G. STATE (Specify)				
_ H. LOCAL (Specify)				
I. OTHER (Specify)				
_ J. NONE				
III. SITE DESCRIPTION				00 0710Th
(Check all that apply)	02 AMOUNT 03 UN	IT OF MEASURE 04	TREATMENT (Check all that apply)	95 OTHER
A. SURFACE IMPOUNDMENT  8. PILES		nknewn 8	. INCINERATION . UNDERGROUND INJECTION	X A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND			. CHEMICAL/PHYSICAL . BIOLOGICAL . WASTE DIL PROCESSING	OG AREA OF SITE
F. LANDFILL G. LANDFARM			. SOLVENT RECOVERY . OTHER RECYCLING/RECOVER	ty a
H. OPEN DUMP			. OTHER	(Acres)
I. OTHER Roll off containers (Specify) Unsite		iu. vas.	(Specify)	
COMMENTS				
lince the beginning of NJDEP inspectation. Inspection was conducted to determine the second section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section sectio	Also, immediate ar	ea of site is heavi	ly contaminated from past	
Y. CONTAINMENT DI CONTAINMENT OF MASTES (Check of				
·	•			
_ A. ADEQUATE, SECURE	B. MODERATE	_ C. INADEQU	IATE, POOR X D.	INSECURE, UNSOUND, DANGEROUS
DESCRIPTION OF DRUMS, DIKING,	LINERS, BARRIERS, E	ic.		
Frums received are "emoty" for re is stored in two roll off contain with mud and spilled material and	ers and is manifest	ed for disposal.	Containers are on concre	te siabs but siab is covered
ACCESSIBILITY		<del>_</del>		
DI WASTE EASTLY ACCESSIBLE: DZ COMMENTS	Y AEZ WO			
Dite is fenced on three sides and puarded. As a result, entrance i	is easily obtained.			
V. SOURCES OF INFORMATION (Cite's alcoim Pirmie Preliminary Assess	pecific references. iment of 2/5/85	e.g., state files	, sample analysis, report	\$)

EPA FORM 2070-13 (7-81)

NJ 0011482577

II. DRINKING WATER SUPPLY		02 51	ATUS		03 DISTANCE TO SITE	
(Check as applicable)	SURFACE WE		GERED AFFECTE			
COMMUNITY NON-COMMUNITY	A. <u>X</u> B.	_ ô:	<u>x</u> 8: -	F	8:	i}
III. GROUNDWAYER OI GROUNDWAYER USE IN VICIA						
A. ONLY SOURCE FOR DRINK	ING _ B. DRINKI	NG X C.	COMMERCIAL, IND	STRIAL, IRRIGATION	_ D. NOT USED, UNUSEAB	LE
	(Other so available COMMERCIA INDUSTRIA IRRIGATIO (No other sources a	L. L. N	imited other so	urces available)		
OZ POPULATION SERVED BY GRO	OUND WATER:	0	03 DISTANCE	TO MEAREST DRINKING	MATER WELL: N/A (mi	)
04 DEPTH TO GROUNDWATER C	5 DIRECTION OF G	ROUNDWATER FLO		AQUIFER OF POTENTI		AQUIFER
3(ft)	WN	<u> </u>	20	(ft) _ <u>2.0 x 10</u>	7 (gpd) YES	<u>x</u> no
09 DESCRIPTION OF WELLS (In	clüding useage,	depth, and loc	ation relative	o population and bu	ildings)	-
ft. No drinking wells are Selancey holding Corporatio Brunswick Adulfer which is conditions in Newark.	n. The nearest charged by Newar	well is one mi k Bay. Ground	le from the sit	e. All the wells to way from Newark Bay	the west of the site tap because of heavy pumping	the
	ewark Say rechar quifer of concer		XES NO		Water recharges Brunswick Formation to the west.	
IV. SURFACE WATER J1 SURFACE WATER USE (Check	one)					
A. RESERVOIR, RECREATI	ON _ S. IRRIGAT	ION, ECONOMICA RESOURCES	LLY _ C. COM	ERCIAL, INDUSTRIAL	_ D. NOT CURRENTLY USED	
02 AFFECTED/POTENTIALLY AFF	ECTED BODIES OF	WATER	<del> </del>		· · · · · · · · · · · · · · · · · · ·	
NAME:			AFF	ECTED DISTANCE T	O SITE	
Passaic River	· · · · · · · · · · · · · · · · · · ·		<del></del>		0 (mi)	
Yewark Bay			· · · · · · · · · · · · · · · · · · ·			
<u> </u>	itch is deep and	filled with w	ater	K Or	site (mi)	
V. DEMOGRAPHIC AND PROPERTY	INFORMATION					
OF (1) MILE OF SITE				•	TO NEAREST POPULATION	
ONE (1) MILE OF SITE			• •	- ZILE		
A. O NO. OF PERSONS	B. <u>53900</u> NO. OF	PERSONS C.	186900 NO. OF PERSONS	<del> </del>	1.5	(m1)
03 NUMBER OF BUILDINGS WITH	IN TWO (2) MILES	OF SITE	04 DISTANCE	TO MEAREST OFF-SITE	BUILDING	· · · · · ·
19900				<0.1	(m·	i)
05 POPULATION WITHIN VICINI rural, village, densely population	TY OF SITE (Prov	ide narrative a)	description of	nature of population	within vicinity of site.	e.g.,
The immediate vicinity of t distance). To the west, at is east of the site. North commercial shipping.	ne site contains	industrial or	IC THE MARCH!	u samulistad leamhaid	id caction of Youard You	

EPA FORM 2070-13 (7-81)

## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
OI STATE OZ SITE NUMBER
NJ DOI1482577

VI. ENVIRONMENTAL INFORMATION  OI PERMEABILITY OF UNSATURATED ZONE (Check one)  X A. 10-6 - 10-8 cm/sec  Soil is fill over marsh land with a clay lense over the aquifer of	-4 - 10-3 cm/sec _ D. GREATER THAN 10-3 cm/sec
OZ PERMEABILITY OF BEDROCK (Check one)  A. IMPERMEABLE $\underline{x}$ B. RELATIVELY IMPERMEABLE $\underline{c}$ . RELATIVELY (Less than $10^{-6}$ cm/sec) $\underline{c}$ ( $10^{-2}$ - $10^{-6}$ cm/sec) $\underline{c}$	ELY PERMEABLE D. VERY PERMEABLE (Greater than 10-2 cm/sec)
03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE 05	SOIL PH
, 55	.9 - 7.5
DE NET PRECIPITATION 07 ONE YEAR 24 HOUR RAINFALL 08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE
14 (in) 2.75 (in) 0-1	2 East 2
59 FLOOD POTENTIAL 10	
SITE IS IN 100 YEAR FLOODPLAIN SITE IS ON BARRIE	R ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minimum) 12	DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE OTHER	
A	DANGERED SPECIES: N/A
13 LAND USE IN VICINITY	
DISTANCE TO:	
COMMERCIAL/INDUSTRIAL RESIDENTIAL AREAS: NATIONAL/STATE PARKS. FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRÎME AG LAND AG LAND
A. Adiacent (mi) B. 1.5 (m	•
A. Agraceris (IIII)	
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY	
The site is located about one mile west of Newark Bay and North of Newarthan 12 slope. The surrounding area is former wetland that has been fighte and lead into Newark Bay.	k International Airport. The area is flat with less led in. Drainage "Streams" or ditches are located on
·	
1	
	•
	•
÷	
VII SOURCES OF INFORMATION (Cite specific references e.g., state files	
William D. Nichols, Groundwater Resources of Essex County, New Jersey: Telecon with Sy Goodman - USDA, 4/3/85 Pheliminary Report on the Geology and Groundwater Supply of Newark, New of Conservation and Economic Development Paul 3. Dahlgren, Hydrogeologic Assessment for Central Street Drum, En	Jersey Area: Special Report #1 New Jersey Department

SAMPLE TYPE	OI NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	O3 ESTIMATED DATE RESULTS AVAILABLE
GROUNDHATER	3	All Organics Sent To:	
SURFACE WATER	1	Environmental Testing and	Certification Labs
WASTE		284 Raritan Center Parkwa	<b>y</b>
AIR		Edison, NJ 08818	
RUNOFF			
SPILL		All Inorganics Sent To:	
201r	4	JTC Environmental Consult	ants Inc.
VEGETATION		Four Research Place, Suite	e L-10
OTHER		Rockville, Maryland 20850	)
. FIELD MEASURE	MENTS TAKEN  OZ COMMENTS		
Air	OVA, HNU used for check		th and Safety reasons. Yo readings above
Air			th and Safety reasons. No readings above
	background except upon		th and Safety reasons. No readings above
PHOTOGRAPHS AND	background except upon	well opening.	
PHOTOGRAPHS AND	background except upon  HAPS  ROUND _ AERIAL	Well opening.  OZ IN CUSTODY OFNUS Torm	oration - FIT II of organization or individual)
PHOTOGRAPHS AND TYPE X 6	background except upon	Well opening.  OZ IN CUSTODY OFNUS Torm	poration - FIT II
PHOTOGRAPHS AND TYPE <u>1</u> 6 TAPS 04	background except upon  HAPS  ROUND _ AERIAL	O2 IN CUSTODY OF	poration - FIT II
TYPE <u>x</u> 6  MAPS 04 <u>x</u> yes	D HAPS  ROUND _ AERIAL  LOCATION OF MAPS	OZ IN CUSTODY OF	poration - FIT II
PHOTOGRAPHS AND TYPE <u>x</u> 6  MAPS 04 <u>x</u> yes <u>no</u> Other field data	background except upon  MAPS  ROUND _ AERIAL  LOCATION OF MAPS	O2 IN CUSTODY OF	poration - FIT II
PHOTOGRAPHS AND TYPE X 6 MAPS 04 X YES NO OTHER FIELD DATA 1d Notebook #136	D MAPS  ROUND _ AERIAL  LOCATION OF MAPS	O2 IN CUSTODY OF	oration - FIT II or organization or individual)
PHOTOGRAPHS AND TYPE X 6  MAPS 04  X YES NO OTHER FIELD DATA 1d Notebook \$136	D MAPS  ROUND AERIAL  LOCATION OF MAPS  VUS Corporation - FIT II  COLLECTED (Provide narrative 4 filed under TOO \$02-8511-15.	O2 IN CUSTODY OF	oration - FIT II of organization or individual)
PHOTOGRAPHS AND TYPE 1 6  MAPS 04  X YES NO DTHER FIELD DATA Id Notebook #136	D MAPS  ROUND _ AERIAL  LOCATION OF MAPS	O2 IN CUSTODY OF	oration - FIT II of organization or individual)

		PARENT COMPANY (If applicable)	
II. CURRENT OWNER(S)	02 D + B NUMBER	OB NAME	09 0 + 8 NUMBER
Central Steel Orum O3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
704 Doremus Avenue 05 CITY 06 STATE	O7 ZIP CODE	12 CITY 13 STATE	14 zer gwe
Newark NJ	07105		
OI NAME	02 D + 8 NUMBER	08	09 0 → 8 NIMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC COOE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
OS CITY OS STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
OI NAME	02 D + B NUMBER	OR NAME	09 0 + 8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC COCE
OS CITY OS STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
OI NAME	02 D + B NUMBER	OS NAME	09 0 + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	_10 STREET_ADDRESS (P.O. Box, RFO#, etc.)	_ 11 SIC CODE
OS CITY O6 STATE	07 ZIP CODE	12 CITY 13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent fi	rst)	IV. REALTY OWNER(S) (If applicable: list m	nost recent first
OI NAME	02 D + B NUMBER	OI NAME	02 0 + 3 NUMBER
Inter Chemical (Inmont D3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC COCE
1255 Broad Street OS CITY O6 STATE	07 ZIP COOE	OS CITY OG STATE	O7 ZIP CODE
Clifton NJ	07015	•	
OI NAME	02 D + B NUMBER	OI HAVE	02 D + 3 NUMBER
D3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	O3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC COCE
OS CITY O6 STATE	O7 ZIP CODE	OS CITY OG STATE	O7 ZIP COCE
DI NAME	02 D + B NUMBER	OI NAME	02 0 + 8 NUMBER
3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	O3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
DS CITY D6 STATE	O7 ZIP COOE	OS CITY OF STATE	O7 ZIP COCE
. SOURCES OF INFORMATION (Cite specific ref	erences, e.g., state	files, sample analysis, reports)	

Site Inspection 2/5/86 - MUS FIT Region II

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT. PART 8 - OPERATOR INFORMATION

OI STATE OZ SITE HUMBER
NJ DO11482577

		OPERATOR'S PARENT COMPANY (If applicable	II D + B NUMBER
CURRENT OPERATOR (S)	02 0 + 8 Number	10 MAR	II a . a manacii
NAE		A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH	) 13 SIC CODE
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CITY O6 STATE	O7 ZIP CODE	14 CITY 15 STATE	16 ZIP COCE
YEARS OF OPERATION 09 NAME OF OWNER	•		
		PREVIOUS OPERATOR'S PARENT COMPANIES (	f applicable)
11. PREVIOUS OPERATOR(S) (List most recent	first:	NKEATON2 ONEWLOW 2 LINETH GOLD AND A	
Provide only If	02 0 + 8 Number	10 NAME	11 0 + 8 NUMBER
Same as previous owner) 3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC COOE	12 STREET ADDRESS (P.O. Box, RFD#, etc	.) 13 SIC CODE
S CITY 06 STATE	O7 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
YEARS OF OPERATION OF MAME OF CHINER			
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I NAME	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc	:.) 13 SIC CODE
3 STREET ADDRESS (P.O. Box, RFD#, etc.)	. • • • • • • • • • • • • • • • • • • •		
S CITY DE STATE	O7 ZIP CODE	14 CITY 15 STATE	16 ZIP COCE
8 YÉARS OF OPERATION 09 NAME OF OWNE	<b>R</b> , "		
LYAME	02 0 + 8 Number	10 NAME	11 0 + 3 NOVE
3 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, et	e.) 13 SIC COCE
S CITY O6 STATE	Q7 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
8 YEARS OF OPERATION 09 NAME OF CHINE	R		
IV. SOURCES OF INFORMATION (CIEB specific	•	ate files, sample analysis, reports)	

Site Inspection 2/5/86 - NUS FIT Region II.

### POTENTIAL HAZARDOLS WAS TE STEE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION

1. IDENTIFICATION
OI STATE OZ SITE NUMBER
NJ DO11482577

OT NAME	27 P 27 P 28 P 28			
OA SIC CODE  772 DOTEMUS AVENUE 773 DOTEMUS AVENUE 774 DOTEMUS AVENUE 775 CITY 775 OFF-SITE GERERATORIS) 775 OFF-SITE GERERATORIS) 776 OFF-SITE GERERATORIS) 777 OFF-SITE GERERATORIS) 777 OFF-SITE GERERATORIS) 778 OFF-SITE GERERATORIS) 779 OFF-SITE GERERATORIS) 770 OFF-SITE GERERATORIS) 770 OFF-SITE GERERATORIS) 770 OFF-SITE GERERATORIS) 770 OFF-SITE GERERATORIS) 771 OFF-SITE GERERATORIS) 771 OFF-SITE GERERATORIS) 772 OFF-SITE GERERATORIS) 773 OFF-SITE GERERATORIS) 774 OFF-SITE GERERATORISS 775 OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE OFF-SITE	II ON-SITE GENERATOR OI NAME	02 D + S NUMBER		
03 CITY	Central Steel Drum 03 STREET ADDRESS (P.O. Box, RFD#, etc.)			
11   OFF-SITE GENERATOR(S)   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI STREET ADDRESS (P.O. Box, RFD#, etc.)   O4 SIC CODE   O5 CITY   O6 STATE   O7 ZIP CODE   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3 MUMBER   OI NAME   OZ 0 + 3	AC C 71 7P	O7 ZIP CODE		
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	Y SAUDON OF THEODINATION			

Tite Inspection 2/5/36 - NUS FIT Region II

II. PAST RESPONSE ACTIVITIES		
01 A. WATER SUPPLY CLOSED 04 DESCRIPTION	OZ DATE:	03 AGENCY:
Not applicable. 01 8. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE:	03 AGENCY:
Not applicable. Ol C. PERMANENT WATER SUPPLY PROVIDED O4 DESCRIPTION	OZ DATE:	03 AGENCY:
Not applicable. 01	OZ DATE:	03 AGENCY:
Not applicable.  Ol E. CONTAMINATED SOIL REMOVED  O4 DESCRIPTION	OZ DATE:	03 AGENCY:
Not applicable. 01 F. WASTE REPACKAGED 04 DESCRIPTION	O2 CATE:	03 AGENCY:
Not soplicable. 01G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable. 01 H. ON SITE BURIAL 04 DESCRIPTION	OZ DATE:	03 AGENCY:
Not applicable. 01 I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE:	O3 AGENCY:
Not applicable. 01 J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	O2 DATE:	O3 AGENCY:
Not applicable. OI K. IN SITU PHYSICAL TREATMENT O4 DESCRIPTION	O2 DATE:	O3 AGENCY:
NOT ADDITION OF DESCRIPTION	OZ DATÉ:	03 AGENCY:
Not applicable. OIM. EMERGENCY WASTE TREATMENT O4 DESCRIPTION	02 DATE:	03 AGENCY:
Not applicable. 01 N. CUTOFF WALLS 04 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable.  21 O. EMERGENCY DIKING/SURFACE WATER DIVERSION 24 DESCRIPTION	02 DATE:	O3 AGENCY:
Ol P. CUTOFF TRENCHES/SUMP  34 DESCRIPTION	02 DATE:	O3 AGENCY:
OF ADDITION OF WALL	02 DATE:	O3 AGENCY:
not applicable.		

### SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

OI STATE OZ SITE NUMBER NJ DO11482577

II. PAST RESPONSE ACTIVITIES OI R. BARRIER WALLS CONSTRUCTED O4 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable. 01 S. CAPPING/COVERING 04 DESCRIPTION	O2 DATE:	03 AGENCY:
Tot applicable.  21	02 DATE:	O3 AGENCY:
Not applicable. 01 U. GROUT CURTĂIN CONSTRUCTED 04 DESCRIPTION	02 DATE:	O3 AGENCY:
Not applicable. 01 V. BOTTOM SEALED 04 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable. 01 W. GAS CONTROL 04 DESCRIPTION	02 DATE:	03 AGENCY:
Not applicable. 01 X. FIRE CONTROL 04 DESCRIPTION	02 DATE:	O3 AGENCY:
Not applicable. 01 Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE:	03 AGENCY:
Not applicable. 01 Z. AREA EVACUATED 04 DESCRIPTION	02 DATE:	O3 AGENCY:
Tot applicable. 01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	OZ DATE:	Q3 AGENCY:
Not applicable. 01 2. POPULATION RELOCATED 04 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable O1 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	OZ DATE:	O3 AGENCY:
Not applicable.		

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, recorts)

Site Inspection 2/5/35 - NUS FIT Region II

#### PUTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

1. IDENTIFICATION OL STATE OZ SITE NUMBER NJ DO11482577

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION

X YES

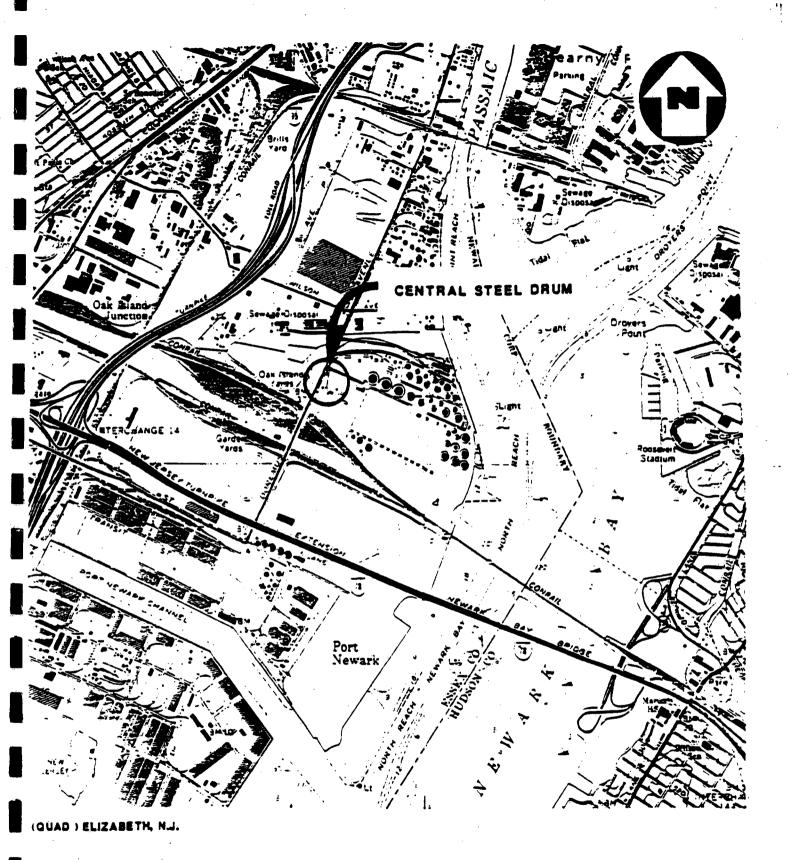
100

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

- (1) 3/23/30 Notice of Prosecution (NOP) to Central Steel Drum for improper ash disposal. CSD cited for illegally operating Treatment Storage Disposal facility (RCRA).
- (2) Cited violations concerning incinerator emissions on February 8, 1982. Violations included capacity, past operation without a permit, and open burning.
- (3) NJDEP-DWR required groundwater study in 1983.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, report)

Telecon, Kevin Krouse of NJDEP - (201) 669-3960 Malcolm Pirnie, Preliminary Assessment of 3/5/85



SITE LOCATION MAP
CENTRAL STEEL DRUM, NEWARK, N.J.

(NOT TO SCALE)

FIGURE A-1

FIGURE A-1

A Halliburton Company

TEXACO DELANCEY STREET ENTRANCE NJV7 GW2 DOREMUS STORAGE SAND BLAST ORUM RECONDITIONING TRAILER PARKING TALL GRASS NJV7-GW3 NJV7-SW, LEGEND SOIL SAMPLE GROUNDWATER SAMPLE SURFACE WATER SAMPLE DRUM STORAGE AREA BOUNDARY

SAMPLE LOCATION MAP
CENTRAL STEEL DRUM, NEWARK, N.J.

(NOT TO SCALE)

FIGURE A-2



TABLE I
Sample Descriptions
Central Steel Drum
Newark, New Jersey
CASE #5507

•						
Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	<u>Date</u>	Time ( <u>Hours</u> )	Sample Type	Sample Location
Si	BF 590	MBF433	2/05/86	1108	Soil	Adjacent to convey belt in drain staging area.
<b>S2</b>	BF 591	MBF434	2/05/86	1126	Soil	Fifty feet from incerator adjacent to conveyor belt:
<b>S3</b>	BF 592	MBF435	2/05/86	1135	Soil	Adjacent to manife waste storage on south side of incinerator.
S4	BF593	MBF436	2/05/86	1555	Soil	Adjacent to draina ditch at southeast of property.
GW1	BF 583	MBF426	2/05/86	1235	Aqueous	Shallow well #102 entrance.
GW2	BF 584	MBF 427	02/85/86	1400	Aqueous	Deep weil #202 by entrance.
GW3	BF 585	MBF428	2/05/86	1545	Aqueous	Deep well #204 at southeast corner c property.
SW1	BF 589	MBF432	2/05/86	1500	Aqueous	Surface water fro drainage ditch at southeast corner property.
Blank-l	BF 594	MBF437	2/05/86	N/A	Sample Blank	U.S. EPA Lab Edison, NJ.

### ORGANIC DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags must be explicit.

- Value -If the result is a value greater than or equal to the detection limit, report the value.
- -Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

- I -Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a lil response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 101)
- C -This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.
  - B -This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
  - Other -Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

# Organics Analysis Data Sheet (Page 1)

Laboratory Name: ETC Corp.	Case No: 5507
Sample ID No: L1495 V Sample Matrix: Soil	QC Report No: QV 4400  Contract No: 68-01-6766, 6788, 6789, 6790
Data Release Authorized By:	Date Sample Received:2/6/%
Volatile (	Compounds
Concentration: (Low)	Medium (Circle One)
Date Extracted/Prepare	d: <u>2/13/96</u>
Date Analyzed:	2/13/86

CAS Number		ug/l or ug/Ko (Circle One)
74-87-3	Chloromethane	5.10
74-83-9	Bromomethane	5.10
75-01-4	Vinvi Chloride	5.10
75-00-3	Chlorosthane	5.10
75-09-2	Methylene Chloride	100 AB CO
57-64-1	Acetone	180 X B a
75-15-0	Carbon Disulfide	5.10
75-35-4	1. 1-Dichloroethene	5.10
75-34-3	1, 1-Dichlorosthane	5.10
156-60-5	Trans-1, 2-Dichloroethene	5.10
67-66-3	Chloreform	5.10
107-06-2	1: 2-Dichloroethane	5.10
78-93-3	2-Butanone	5.10
71-55-6	1, 1, 1-Trichloroethane	160 A 00
56-23-5	Carbon Tetrachloride	5.10
108-05-4	Vinyl Acetate	5.10
75-27-4	Bromodichloromethane	5.10

Conc/Dil Factor: .

Percent Moisture: (Not Decanted)

CAS Number		ug/l of ug/Kg
78-87-5	1, 2-Dichloropropene	5.10
10061-02-6	Trans-1, 3-Dichloropropene	510
79-01-6	Trichloroethene	5.10
124-48-1	Dibromochloromethane	SIU
79-00-5	1. 1. 2-Trichloroethene	5.10
71-43-2	Benzene	5.10
10061-01-5	cis-1, 3-Dichloropropene	5.1V
110-75-8	2-Chloroethylvinviether	5.10
75-25-2	Bromoform	5.10
108-10-1	4-Methyl-2-Pentanone	5.10
591-78-6	2-Hexanone	5.10
127-18-4	Tetrachioroethene	5.(0
79-34-5	1, 1, 2, 2-Tetrachioroethane	SIU
108-88-3	Toluene	8.6
108-90-7	Chlorobenzene	5.10
100-41-4	Ethylbenzene	7.1
100-42-5	Styrene	5.10
	Total Xylenes	56 A

#### **Data America Qualifiers**

For reparting results to EPA, the following results qualifiers are used.

Additional flags or featness explaining results are encouraged However, the
definition of each flag must be explained.

- The lift result is a value greater than or equal to the detection limit, result the value
- Indicates comparing was analyzed for but not detected. Report the minimum detection limit for the sample with the U to g. 1 (U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should road: U-Comparing was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- indicates an estimated value. This flag is used either when estimating a consentration for tentatively identified compounds where a 1-1 response is assumed ar when the meas spectral data indicated the presence of a compound that meets the dentification trains but me result is test than the specified detection limit but greater than zero (e.g., 10J). If time of direction is 10 µg/1 and a concentration of 2 µg/1 is calculated, report of 3J.
- G This flag asserts to gesticide parameters where the identification has been conformed by GC/MS. Single companion posterious ≥10 ng/ul in the final extract should be continued by GC/MS.
- This flog is used when the analyse is found in the blank as well as a sample. It intrinsion promote/greater them, commitmented and warns the data user to take aggregation action.

Other spitchis flags and featness; may be required to graperly define the retails. If veed, they must be fully described and such description attached to the data summary report.

27

Laboratory Name:	ETC Corp.	
Monara I	FOZZ	
Case No:	3307	

Sample Number BF 570

# Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration:	Low	Medium	(Circle	One)

Date Extracted/Prepared: 2 35 86

Date Analyzed: 3/8/6/ Am

Conc/Dil Factor:

CAS Number		ug/l orug/Kg (Circle One
62.75.9	N-Nitrosodimethylamine	23000 U
108-95-2	Phenol	46000U
62-53-3	Aniline	13000 U
111-44-4	bist-2-ChloroethvilEther	13000
95-57-8	2-Chiarophenal	46000 U
541-73-1	1. 3-Dichlorobenzene	230000
106-46-7	1 4-Dichlorobenzene	JOOOU!
100-51-6	Benzyl Alcohol	230000
95-50-1	1. 2-Dichlorobenzene	130004
95-48-7	2-Methylphenol	46000 U
39638-32-9	bis(2-chloroisopropyl)Ether	2300U
106-44-5	4-Methylphenol	46000 U
621-64-7	N-Nitrasa-Di-n-Propylamine	8,3000 V
67-72-1	Hexachioroethane	DOOOEE
98-95-3	Nitrobenzene	7-3000 M
78-59-1	Isophorone	\$-3000U
88-75-5	2-Nitrophenol	41000 U
105-67-9	2. 4-Dimethylphenol	460000
65-85-0	Benzoic Acid	460000
111-91-1	bist-2-ChloroethoxviMethane	DOODE
120-83-2	2. 4-Dichtorophenol	46000 U
120-82-1	1. 2. 4-Trichlorobenzene	22000U
91-20-3	Naphthalene	DOODE
106-47-8	4-Chloroeniine	Dece E
87-68-3	Hexachlorobutadiene	1000E
59-50-7	4-Chloro-3-Methylphenol	46000 U
91-57-6	2-Methylnaphthalene	LOGOCA
77-47-4	Hexachiorocyclopentadiene	220000
88-06-2	2. 4 6-Trichlorophenoi	46000 U
95-95-4	2. 4. 5-Trichlorophenol	4600011
91-58-7	2-Chloronaphthalene	23000V
88.74-4	2-Nitroaniline	23000U
131-11-3	Dimethyl Phthalate	73000A
208-96-8	Acensonthylene	33000 U
99-09-2	3-Nitrosniline	भेडळ <u>ू</u>

CAS		ug/l er ug Ato
Number	•	(Circle Coe
83-32-9	Acenephthene	230001
51-28-5	2, 4-Dinitrophenol	4LOCO U
100-02-7	4-Nitrophenot	46000 U
132-64-9	Dibenzofuran	2300CU
121-14-2	2. 4-Dinitratoluene	23000 U
606-20-2	2, 6-Dinitrotoluene	23000 U
84-66-2	- Diethylphthelete	23000 U
7005-72-3	4-Chlorophenvi-phenviether	DOOOES
86-73-7	Fluorene	NOODENE
100-01-6	4-Nitroeniline	230004
534-52-1	4, 6-Dinitro-2-Methylphenol	45000 U
86-30-6	N-Nitrosodiohenvismine (1)	230001
101-55-3	4-Bromophenyl-phenylether	N 000E
118-74-1	Hexachlorobenzene	230004
87-86-5	Pentachioraphenol	46000 U
85-01-8	Phenanthrene	3300 U
120-12-7	Anthracene	10000 U
84-74-2	Di-n-Butylphthalate	J3000 U
206-44-0	Fluorenthene	3-2000U
92-87-5	Benzidine	23000U
129-00-0	Pyrene	22000U
85-68-7	Butytonzylphthalate	DOGGE
91-94-1	3. 3'-Dichlorobenzidine	20000
56-55-3	Benzola)Anthracene	43000 U
117-81-7	bial2-EthylhamilPhthalate	30000
218-01-9	Chrysene	2200U
117-84-0	Di-n-Octyl Phthalate	23000 U
205-99-2	Benzoth/Fluorentnene AN	30000
207-08-9	BenzakiFluarenthene	23000
50-32-8	Benzola Pyrane	2300U
193-39-5	Indenci 1, 2, 3-cd)Pyrene	23000 W
53.70.3	Dibenzia, hMnthracene	230CC U
191-24-2	Benzalg, h. Perviene	3300C V
		<u> </u>

(1)-Cannot be separated from dishenviaming

Organics Analysis Data Sheet (Page 3)

### Pesticide/PCBs

Medium Concentration: 2112183 Date Extracted/Prepared: \_\_\_\_

Date Analyzed:

Conc. Dil Fa	ctor:	)
CAS Number		ug/l drug/K
319-84-6	Alona-BHC	1504
319-85-7	Beta-BHC	150 U.
319-86-8	Detta-BHC	1304
58-89-9	Gamma-8HC (Lindane)	150.0
76-44-8	Heptachior	1904
309-00-2	Aldrin	198U
1024-57-3	Heptachlor Epoxide	19004
959-98-8	Endosulfan I	5304
60-57-1	Dieldrin	760 4
72-55-9	4.4'-00E	5904
72-20-8	Endrin	1000 4
33213-65-9	Endosultan II	5704
72-54-8	4.41-000	TEON
7421-93-4	Endrin Aldenyde	1700U
1031-07-8	Endosulfan Sulfate	36004
50-29-3	4. 4'-DDT	390U
72-43-5	Methazychior	4500U
53494-70-5	Endrin Ketone	5900U
57-74-9	Chlordane	- /50000
8001-35-2	Tozaphene	1 7000 U
12674-11-2	Aracter-1016	90004
11104-28-2	Arocior-1221	7300 U
11141-16-5	Arocior-1232	. 840 U
53469-21-9	Arocior-1242	62004
12672-29-6	Arocior-1248	4508U
11097-69-1	Arector-1254	>300 U
11096-82-5	Aracter-1260	>4001

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>t</sub> = Volume of total extract (ul)

V <sub>s</sub> v <sub>s</sub> 75 · v <sub>s</sub> 7000 v <sub>s</sub> 3		75	V	و بر
-------------------------------------------------------------------------	--	----	---	------

V<sub>8</sub> \* Volume of water extracted (ml)

W<sub>s</sub> \* Weight of sample extracted (g)

# Organics Analysis Data Sheet (Page 1)

Name: ETC Corp.	Case No: 5507	
propose ID No: <u>L1496 V</u>	QC Report No: QV44	00
Matrix		6788, 6789, 6790
Release Authorized By:	Date Sample Received:	2/6/86
Volatile Co	mpounds	· ·
Concentration: (Low)	Medium (Circle One)	
Date Extracted/Prepared:	2/13/86	
Date Analyzed:	2/13/86	
Conc/Dil Factor:	pH7.6	
Percent Moisture: (Not Dec	anted) 38.7	

	ug/l ör ug/Ko
Chloromethane	6.5U
Bromomethane	6.50
Vinyl Chloride	6.50
Chloroethane	6.50
Methylene Chloride	95.88
Acetone	120.83
Carbon Disulfide	6.50
1. 1-Dichteresthene	6.50
1. 1-Oichloroethane	6.50
Trans-1, 2-Dichloroethene	6.50
Chloroform	6.50
1. 2-Dichlorosthane	6.50
2-Butanone	560
1, 1, 1-Trichloroethane	6.50
Carbon Tetrachionide	6.50
Vinyl Acetate	6.50
Bromodichloromethane	6.50
	Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disuffide 1. 1-Dichloroethane 1, 1-Dichloroethane Trans-1, 2-Dichloroethane Chloroform 1. 2-Dichloroethane 2-8utanone 1, 1, 1-Trichloroethane Carbon Tetrachloride

CAS Number		ug/i oreg/Kg (Circle One)	)
78-87-5	1. 2-Dichlorograpane	650	
10061-02-6	Trans-1, 3-Dichloropropene	6.50	
79-01-6	Trichloroethene	6.50	
124-48-1	Dibramachleramethane	6.50	
79-00-5	1, 1, 2-Trichloroethane	6.5U	
71-43-2	Benzene	1.15	
10061-01-5	cis-1, 3-Dichloropropene	6.50	
110-75-8	2-Chloroethylvinylether	6.50	
75-25-2	Bramaform	6.50	
106-10-1	4-Methyl-2-Pentanone	14.8	
591-78-6	2-Hexanone	6.50	
127-18-4	Tetrachioroethene	650	
79-34-5	1, 1, 2, 2-Tetrachioroethane	650	
108-88-3	Taluene		عد
108-90-7	Chlorobenzene	6.50	`
100-41-4	Ethylbenzene	6.7	
100-42-5	Styrene	6.50	
	Total Xylenes	30.3	

**Date Reserving Qualifiers** 

For reporting results to EPA, the following results existifiers are used.

Additional flags or featheres explaining results are encouraged. However, the
definition of each flag must be explicit.

- If the result is a value greater than or equal to the detection limit.
- Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U in q. I GUI based on necessary concentration/advisor asset. (This is not necessary the interviewed detection limit.) The feature ground read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Integrates an elemental value. This flag is used other when elements a concernment for temperate identified compounds where a 1-1 response is assumed or when the most spectral data indicated the presence of a commound that mosts the identification indicated the presence of a commound that mosts the identification from but in result is less than the operated direction from but practic than note to g. 10.7. If from of distinction is 10 µg/l and accommonstation of 3 µg/l is conculated, report 46 3.1.

- C This flee agains to presticate carameters where the abreakanton has been confirmed by GC/MS. Single companions presidents ≥10 ng/ul in the final exercit should be confirmed by GC/MS.
- 8' This flag is used when the another is found in the black as well as a sample. It indicates exceeds/probable black operational and warris the data user to take appropriate access.
- Other operation flegs and leastnesses may be required to properly define the results. If used, stery must be fully described and tuch description assessed to the data technicity report.

67

" Mama'		
Laboratory Name:		
Care.	್ಯಾ	ユ
ata:		. <b>T</b>
case No:		

## Sample Number BF 59 |

1....

# Organics Analysis Data Sheet (Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 2/25/86

Date Analyzed: 314186

Conc/Dil Factor:

CAS		ug/lor vg/Kg
Number		(Circle One)
62.75.9	N-Nitrosodimethylamine	30000 U
108-95-2	Phenol	P0 000 M
62-53-3	Aniline	30000 U
111-44-4	bist-2-ChloroethyllEther	30000
95-57-8	2-Chlorophenol	80 000 U
541-73-1	1 3-Dichlorobenzene	10000U
106-46-7	1. 4-Dichtorobenzene	300004
100-51-6	Benzyl Alcohol	30000 U
95-50-1	1. 2-Dichtorobenzene	30000U
95-48-7	2-Methylphenol	10000 U
19638-32-9	bisi2-chioroisopropyl)Ether	LOCOOL
106-44-5	4-Methylphenol	60004
521-64-7	N-Nitroso-Di-n-Propylamine	30000 U
57-72-1	Hexachioroethane	30000 U
98-95-3	Nitrobenzene	
78-59-1	Isognorone	30000 V
88-75-5	2-Nitrophenol	10000 W
105-67-9	2. 4-Oimethylphenoi	
65-85-0	Senzoic Acid	60000U
111-91-1	bisi-2-ChloroethoxviMethane	60 000 U
120-83-2	2. 4-Dichlorophenol	
120-82-1	1. 2. 4-Trichlorobenzene	Po coer
91-20-3		- 3000au
106-47-8	Naphthalene	30000 IY
87-68-3	4-Chloroeniline	30mu
59-50-7	Hezachlorobutadiene	Borroy
91.57.6	4-Chioro-3-Methylphenol	60000U
77.47-4	2-Methylnaphthalene	Page 30000 /1
	Hezachlorocyclopentadiene	Namos
88-06-2	2. 4 6-Trichlorophenol	60000U
95.95-4	2. 4.5-Trichlorophenol	60000W
91.58.7	2-Chloronaonthalene	30000W
88-74-4	2-Nitrospiline	30000
131.1163	Dimethyl Phthalate	JOTT U
108.96.8	Acenaphthylene	30000
99.09.2	3-Nitroaniline	30 000 V

		1 -
CAS		10 (ug/K
Number		(Circle One
83-32-9	Acenaphthene	30,000 U
51-28-5	2, 4-Dinitrophenol	600000
100-02-7	4-Nitrophenol	becoou
132-64-9	Dibenzofuran /	Board
121-14-2	2, 4-Dinstrotoluene	3eom ()
606-20-2	2, 6-Dinitrotoluene	30000 U
84-66-2	Distingshthalate	30000 11
7005-72-3	4-CMorophenyl-phenylether	J. Come
86-73-7	Ffuorene	300001
100-01-6	4-Nitroandine	Somou
534-52-1 -	4, 6-Dinitro-2-Methylphenol	6000U
86-30-6	N-Nitrosodiohenviamine (1)	30000 U
101-55-3	4-Bromoohenyl-phenylether	Some U
118-74-1	Hexachloropenzene	3000 U
97-86-5	Pentachlorophenol	60000 U
85-01-8	Phenenthrene	DOGENE
120-12-7	Anthracene	30moil
84.74.2	Di-n-Butytphthalate	Bemou
206-44-0	Fluoranthene	30 mou
92-87-5	Benzidine	30000 W
129-00-0	Pyrene	Down
85-68-7	Survivenzylphthalate	Bows
91-94-1	3. 3'-Dichlorobenzidine	
56-55-3	BenzolalAnthracane	30000 U
117-81-7	biel 2-EthylhexyllPhthalate	30000 U
218-01-9	Chrosene	
117-84-0	Di-n-Octyl Phthelate	30000
205-99-2	Benzoth)Fluoranthene	2000U
207-08-9	BenzotkiFluoranthene	30 ore u
50-32-8	Benzala Pyrene	30 are of
193-39-5	Indenat 1, 2, 3-od)Pyrene	Jono U
53-70-3		30000 W
191-24-2	Dibenza, hjAnthracene	Semon
1.64.8	Benzolg, h. ilPerviene	30 mcu

(1)-Cannot be separated from diphenylemine

# Organics Analysis Data Sheet (Page 3)

## Pesticide/PCBs

Concentratio	n: Law Medium	(Circle One)				
Date Extracted/Prepared: 31/2/83						
Date Analyze	Date Agaiyzed:3/3/9/8%					
Conc.(Dil)Fac						
CAS		11 - C- 17 -				
Number		ug/locug/Kg (Circle Ons)				
319-84-6	Alona-BHC	75 U				
319-85-7	Seta-SHC	354				
319-86-8	Delta-BHC	130 4				
58-89-9	Gamma-8HC (Lindane)	35U				
75-44-8	Heptachlor	704				
309-00-2	Aldrin	704				
1024-57-3	Heptachlor Epoxide	4604				
959-98-8	Endosulfan i	130 U				
60-57-1	Dieldrin	1804				
72-55-9	4. 4'-00E	11.00				
72-20-8	Endrin	>50 U				
33213-65-9	Endosulfan II	1404				
72-54-8	4, 4'-000	354				
7421-93-4	Endrin Aldehyde	410 U				
1031-07-8	Endosulfan Suifase	8704				
50-29-3	4, 4'-00T	704				
72-43-5	Methoxychior	11004				
53494-70-5	Endrin Ketone	14004				
57-74-9	Chlordane	- 48000				
8001-35-2	Toxaghene	4000U				
12674-11-2	Accior-1016	21000				
11104-28-2	Arocior-1221	17004				
11141-16-9	Arocier-1232	. 200U				
53469-21-9	Arocior-1242	1500 4				
12672-29-6	Arocior-1248	11004				
11097-69-1	Arccior-1254	550 U				
¥1096-82-5	Aractor-1260	581 U				

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>s</sub> = Volume of water extracted (ml)

W<sub>s</sub> = Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

	or W.	81 .	V,	/300	V	. હ	
-	 -		- 1		•		_

BF592

## Organics Analysis Data Sheet (Page 1)

poratory Name. ETC Corp.  L 1497V	Case No:
ample MatrixSoil	Contract No. 68-01-6766, 6788, 6789, 67
Tala Release Authorized By: C. Divigit	Date Sample Received: 2/6/36
Volatile Co	mpeands
Concentration: Low ( Date Extracted/Prepared: Date Analyzed	Medium (Circle One) 2/14/86 2/14/86
Conc/Dil Factor:	он6.9
Percent Moisture: (Not De	canted) 40.7

CAS Yumber		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	6700V
:4.83.9	Bromomethane	6700V
19:01-4	Vinvi Chloride	6700U
75-00-3	Chloroethane	6700V
75-09-2	Methylene Chloride 49,000	B 35 AOOR
17-64-1	Acetone 92.000 B	
15-15-0	Carbon Disuffide	67ccU
15.35-4	1. 1-Dichtoroethene	6700 J
15.34-3	1, 1-Dichloroethane	67000
56-60-5	Trans-1, 2-Dichloroethene	67000
67-66-3	Chloroform	6700U
107-06-2	1. 2-Dichloroethane	6700U
18-93-3	2-Butanone	6700U
1.55-6	1. 1. 1-Trichloroethane	37000
55-23-5	Carbon Tetrachloride	6700U
28-05-4	Vinvi Acetate	67001
5-27-4	Bromodichioromethane	6700V

CAS		
Number		ug/larug/Kg (Circ <del>ia One</del> )
78-87-5	1. 2-Dichloropropane	670CU
10061-02-6	Trans-1, 3-Dichloropropene	67000
79-01-6	Trichloroethene	67000
124-48-1	Dibromochloromethane	£ 700U
79-00-5	1, 1, 2-Trichloroethane	67000
71-43-2	Benzene	67800
10061-01-5	cis-1, 3-Dichloropropene	6700
110-75-8	2-Chloroethvivinviether	6/001/
75-25-2	Bromotorm	67000
108-10-1	4-Methyl-2-Pentanone	67000
591-78-6	2-Hexanone	6700 U
127-18-4	Tetrachioroethene	3900
79-34-5	1, 1, 2, 2-Tetrachioroethane	
108-88-3	Toluene	92,000
108-90-7	Chlorobenzene	670CU
100-41-4	Ethylbenzene	38,000
100-42-5	Styrene	
, , , , , , , , , , , , , , , , , , ,	Total Xylenes	190,000

### Data Reporting Qualifiers

For receiving results to EPA: the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged individual, the definition of each flag must be explain.

- If the result is a value greater than or equal to the detection limit report the value
  - Indicates combound was analyzed for but not defected. Report the infilimum detection limit for the sample with the U te g. 10UI based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1.1 response is assumed or when the mess spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg I and a concentration of 3 µg/I is calculated, region as 3J.

- This flag applies to posticide parameters where the identification has been confirmed by GC/MS. Single companion posticides ≥ 10 ng/ul in the final extract should be continued by GC-MS.
- This flag is used when the energie is found in the blank as well as a sample. It indicates possible processe blank contamination and werns the data user to take appropriate action.

Other specific flags and leatness may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

129

Other

se No: \_\_\_\_\_\_S

Sample Number

# Organics Analysis Data Sheet (Page 2)

# Semivolatile Compounds

Concentration:

Low

Medium (Circle One)

Date Extracted/Prepared: \_

2/35/86

Date Analyzed: \_

314/86

Conc/Dil Factor: \_

CA5		ug/lonug/K
Number	IN Manager	(Circle One
62.75.9	N-Nitrosodimethylamine	30000 U
108-95-2	Phenoi	60000 U
62-53-3	Aniline	30000 A
111-44-4	bist-2-Chioroethyl)Ether	30000U
95-57-8	2-Chlorophenal	80000U
541-73-1	1 3-Dichlorobenzene	30000 U
106-46-7	1. 4-Dichlorobenzene	30mon
100-51-6	Benzyl Alcohol	7 Somo A
95-50-1	1. 2-Dichlorobenzene	D GLOOF
95.48.7	2-Methylphenol	y 200 0 C
39638-32-9	bis(2-chloroisopropyi)Ether	DOWOR
106-44-5	4-Methylphenol	30000 b
621-64-7	N-Nitroso-Oi-n-Propylamine	DOWOR
67-72-1	Hexachioroethane	JOSTO U
98-95-3	Mitrobenzene	DOWNE
78-59-1	Isophorone	namore.
88-75-5	2-Nitrophenol	600004
105-67-9	2. 4-Dimethylphenol	60000U
65-85-0	Benzoic Acid	60000 U
111-91-1	bisi-2-ChloroethoxylMethane	
	2. 4-Dichtorophenol ;	60000U
	1, 2, 4-Trichlorobenzene	Down
	Naphthalene	DOWN
	4-Chlorosniline	30000
17.68-3	Hexachlorobutadiene	300004
59.50.7	4-Chioro-3-Methytohenot	60000
31.57.6	2-Methylnaphthalene	Lower
17.47-4	lexachiorocyclopentadiene	Vernos
8-06-2	. 4 6-Trichlorophenol	₩ 0000 W
20.95-4	. 4. 5-Trichlorophenol	
58.7	-Chioronaphthalene	60000 U
2/4.4	Mitrosoitine	Nowor
3 6	imethyl Phthalate	300000
30.8		Town a
13.00	Censonthylene	35 cas n
13	-Nitroaniline	3000 U

CAS			
Number		- Ug/Torug/K	
83-32-9	Acenaphthene	(Circle One	
51-28-5	2. 4-Dinjerophenol	300001	4
100-02-7	4-Niffsohenol	Loosey	4
132-64-9	dibenzofuran	Pomon	┨.
121-14-2 -	2. 4-Dinitrotoluene	20000 U	4
606-20-2	2. 6-Dinitratoluene	Lowor	-
84-66-2	Diethylobthalate	Sowou	ł
7005-72-3	4-Chlorophenyl-phenylethe	30000 U	ł
86-73-7	Fluorene		ł
100-01-6	4-Nitrosintine	3000 U	{
534-52-1	4, 6-Dinitro-2-Methylpheno	3 Care U	1
86-30-6	N-Nitrosodiphenylamine (1)	1 00 000	
101-55-3	4-Bromophenyl-phenylether	30 and U	1
118-74-1	Hexachlorobenzene	333000	
87-86-5	Pentachiorophenoi	Bowou	ł
85-01-8	Phenanthrene	powda	
120-12-7	Anthracene	3000 U	_
84-74-2	Di-n-Burylphthalate (NA	<del>70000</del>	
206-44-0	Fluoranthene		ملح
92-87-5	Benzidine	NOWOE S	
129-00-0	Pyrene	30000 W	
85-68-7	Survicenzyohthalata (		Bo
91-94-1	3. 3'-Dichlorobenzidine	30 0004	100
56-55-3	Benzola Anthracane	30000	
117-81-7	bist2-EthylhexyllPhthalate	130000	
218-01-9	Chrysene	30000	
117-84-0	Di-n-Octyl Phthelate (A.T.)		Se o
205-99-2	Benzo(b)Fluoranthene	Somoù	
207-08-9	Benzolk)Fluoranthene		
50-32-8	Senzala Pyrene	Zonov.	
193-39-5	Indenai 1, 2, 3-adiPyrene	30000	
53-70-3	Dibenza, hlanthracene	3000 U	
191-24-2	Benzolg, h. i)Perviene	Source.	
		- W	

(1)-Cannot be separated from dishardsman

# Organics Analysis Data Sheet (Page 3)

## Pesticide/PCBs

Concentration	n: Low Medium	(Circle One)	
Date Extracted/Prepared:			
Date Analyzed: 3129187			
Cone Dil Fac	Cone Dil Factor:		
CAS		17/1 ag 17/4 a	
Number		ug/l or ug/Kg (Circle Offs)	
319-84-6	Alpha-BHC	364/	
319-85-7	Beta-BHC	364	
319-86-8	Delta-BHC	1304	
58-89-9	Gamma-8HC (Lindane)	. 364	
76-44-8	Heptachior	1 724	
309-00-2	Aldrin	7 724	
1024-57-3	Heptachlor Epoxide	4704	
959-98-8	Endosulfan i	130 U	
60-57-1	Dieldrin	1904	
72-55-9	4.4-DDE /	1504	
72-20-8	Endrin /	260U	
33213-65-9	Endosuitan A	ונסע	
72-54-8	4, 4 -000	364	
7421-93-4	Endnin Aldehyde	4>04	
1031-07-8	Endosulfan Sulfate	9004	
50-29-3	4. 4:-00T	724	
72-43-5	Méthoxychier	11004	
53494-70-5	Endrin Ketone	15000	
57-74-9	Chlordane	· 410U	
8001-35-2	Toxaghene	4110 U	
12874-11-2	Aroctor-1016	>>004	
11104-78-2	Arocior-1221	1800 U	
11147-16-5	Aroclor-1232	>10 U	
53469-21-9	Arocior-1242	1500U	
12672-29-6	Arocior-1248	1100 4	
11097-69-1	Arocier-1254	570 U	
11096-82-5	Arector-1260	600 U	

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>s</sub> = Volume of water extracted (ml)

W<sub>g</sub> \* Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

or W	V/ 00D	v
w w <sub>3</sub>	V,	V;

# Organica Mallysis Data Sheet

(Page 1)

Name: ETC Corp.	Case No: 5507		-
Somete ID No: 1498V	QC Report No: QV440	0	
Matrix: Soil	Contract No: 68-01-6766,	6788, 6789,	6790
Release Authorized By: C. Dunys	Date Sample Received:	216186	_
Volatile Co	ompounds		
Concentration: (/Low	Medium (Circle One)		
Date Extracted/Prepared:	2/13/86		
Date Analyzed:	2/13/86		,
Conc/Dil Factor:	pH7.1		•
Percent Moisture: (Not De	ecanted) 29.2		

کان معنو		ug/l or ug/Kg (Circis One)
347-3	Chloromethane	5.6 V
243	Bromomethane	5,6U
301-4	Vinyl Chloride	5.60
300-3	Chioroethane	5.60
303-2	Methylene Chloride	1202 B C
141	Acetone	1802B
3-15-0	Carbon Disulfide	5.60
334	1, 1-Dichloroethene	5.60
3343	1, 1-Dichloroethane	5.60
3-40-5	Trans-1, 2-Dichloroethene	5.60
744-3	Chloroform	5.60
VI-06-2	1, 2-Dichloroethane	5.60
3.93-3	2-Butanone	110,8
7.55-6	1: 1, 1-Trichloroethane	560
J.23-5	Carbon Tetrachloride	560
<b>B-05-4</b>	Vinyl Acetate	5.60
3174	Bromodichloromethane	5.60

CAS Number		ug/lorug/Kg) (Circle One)	
78-87-5	1, 2-Dichloropropane	5.60	
10061-02-6	Trans-1, 3-Dichlorograpene	56U	
79-01-6	Trichloroethene	5.6 U	
124-48-1	Dibramachiaromethene	5.60	
79-00-5	1, 1, 2-Trichtoroethane	5.60	
71-43-2	Benzene	5.60	
10061-01-5	cis-1, 3-Dichloropropene	5.60	
110-75-8	2-Chloroethylvinylether	5.60	
75-25-2	Bromotorm	560	
108-10-1	4-Methyl-2-Pentanone	5.60	
591-78-6	2-Hezanone	560	
127-18-4	Tetrachioroethene	5.60	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5.60	
108-88-3	Taluene	50-5	عر
108-90-7	Chlorobenzene	5-6U	
100-41-4	Ethylanzene		مز
100-42-5	Styrene	1200	٥
	Total Xylenes	7428	20

#### Data Reporting Qualifiers

For reporting requits to EPA, the following results qualifiers are used.

Additional flags or leasnates explaining results are encouraged. However, the definition of each flag must be especial.

If the result is a value greater their or equal to the detection limit,

indicates commound was analysid for buil not detected. Report the mum detection limit for the sample with the U is  $\hat{\mathbf{g}}$  ,  $\hat{\mathbf{I}}$  CUI based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit ). The feathers should read U-Compound was analyzed for but not detected. The number is the minimum ettainable detection limit for the sample

indicates an estimated value. This flag is used either when compline a concentration for territoriesty electricist companies where a 1 1 response is assumed or when the mess spectral data received the presence of a compound that mosts the identification timere but the result is time than the specified direction winst but French than zero to g . 103) If hims of detection is 10 µg/1 and a concentration of 3 ug/l is consulated, report as 3.J.

- Ç This flag applies to protecting parameters where the ide been continued by GC/MS. Single component prospersed 210 regives on the funds emerges should be confirmed by GC/MS.
- That flag is used when the analyse is found in the blash as well as a sample. It institutes possible projects store commission and warms the data user to take appropriate action.

Other specific flags and featheres intry as required to properly define the results. If used, they must be hely described and high description estaction to the data summary report

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## Organics Analysis Data Sheet (Page 2)

BF 593

Semivolatile Compounds

Concentration: Low	Medium (Circle One)	
Date Extracted/Prepared:		
Date Analyzed:	3-5-86	
Conc/Dil Factor:		
mesture (4)	29.2%	

10   10   10   10   10   10   10   10			
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	CAS		ug/lorug/K
1.68-95-2   Phenoi		IN Amorana	1 65 - 16
Antine  111.44-4 bisi-2-ChiproethvilEther  195.57-8 2-ChiproethvilEther  195.57-8 2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-4 bisi-2-ChiproethvilEther  111.44-5 1 4-Dichiprobenzene  111.44-6 1 1 2-DichiproethvilEther  111.44-6 1 1 2-DichiproethvilEther  111.44-6 1 1 2-DichiproethvilEther  111.44-6 1 1 2-DichiproethvilEther  111.44-6 1 1 2-DichiproethvilEther  111.44-7 1 2-Mitroso-Di-n-Propyramine  111.44-7 1 1 1 2-DichiproethvilEther  111.44-7 1 1 2-DichiproethvilEther  111.44-7 1 1 2-DichiproethvilEther  111.44-7 1 1 2-DichiproethvilEther  111.44-7 1 2-DichiproethvilEther  111.44-7 2-DichiproethvilEther  111.44-7 2-DichiproethvilEther  111.44-7 2-DichiproethvilEther  111.44-7 2-DichiproethvilEther  111.44-7 2-DichiproethvilEther  111.44-7 2-Dichiproethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvilethvileth			<del>+</del>
111.44-4 bisi-2-ChioroetnvilEtner 2004 95.97-8 2-Chioroetnoi / Coo U 95.97-8 2-Chioroetnoi / Coo U 95.97-8 1 3-Dichlorobenzene			1500 K
195-97-8   2-Chlorophenoi			130 0
13-01chlorobenzene   13-01chlorobenzene   15-01chlorobenzene   15-01ch			
1			
195-50-1 1 2-Dichlorobenzene ROUM 195-50-1 1 2-Dichlorobenzene ROUM 195-88-7 2-Methylphenol / GOUM 196-18-32-9 bis/2-chloroisopropylither ROUM 196-18-32-9 bis/2-chloroisopropylither ROUM 196-18-32-9 bis/2-chloroisopropylither ROUM 196-18-5 4-Methylphenol / GOUM 197-18-5 4-Methylphenol / GOUM 197-19-1 Hexachloroethane ROUM 197-5-5 2-Nitrobenzene ROUM 197-5-5 2-Nitrobenzene ROUM 197-5-5 2-Nitrobenzene ROUM 197-5-5 2-Nitrobenzene ROUM 197-5-5 2-Nitrobenzene ROUM 197-7-1 bis/-2-ChloroethoxylMethane ROUM 197-1 bis/-2-ChloroethoxylMethane ROUM 197-1 bis/-2-ChloroethoxylMethane ROUM 197-8-1 1, 2, 4-Trichlorobenzene ROUM 197-8-3-2 2, 4-Olichlorophenol / GOB MU 197-8-3 4-Chloroethine ROUM 197-8-3 Hexachlorobutadiene ROUM 197-8-3 Hexachlorobutadiene ROUM 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Methylphenol / GOB MU 197-8-3 2-Chloronaphthalene ROUM 197-8-3 2-Chloronaphthalene ROUM 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4-Chlorophenol / GOB MU 197-8-8 4			120 M
1 2-Dichlorobenzene   ROU   15-48-7   2-Methylphenol   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1600   1			
19638-32-9 bisi2-chioroisopropyiEther			
19638-32-9   bis/2-chloroisopropylicther   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960   1960			820 U
4-Methylonenol /600 U  121-64-7 N-Nitroso-Di-n-Propylamine / U  13-72-1 Mexachioroethane / U  13-35-3 Nitrobenzene / U  13-35-3 Nitrobenzene / U  13-75-5 2-Nitrobnenol / 600 U  13-67-9 2. 4-Dimethylonenol / 600 U  13-85-0 Benzoic Acid / 600 U  13-85-0 Benzoic Acid / 600 U  13-83-2 2. 4-Dichlorobenzene / U  13-83-2 2. 4-Dichlorobenzene / U  13-83-2 2. 4-Dichlorobenzene / U  13-83-3 Naphthalene / U  13-68-3 Mexachiorobutadiene / U  13-68-3 Mexachiorobutadiene / U  13-68-3 Mexachiorobutadiene / U  13-57-6 2-Methylonenol / 600 U  13-57-6 2-Methylonenol / 600 U  13-35-4 2. 4. 6-Trichlorobenzene / U  13-35-4 2. 4. 6-Trichlorobenzene / U  13-35-4 2. 4. 6-Trichlorobenzene / U  13-35-4 2. Nitroaniline / U  13-36-8 Acenaphthylonenol / 600 U  13-36-8 Acenaphthylonenol / 600 U		Z-Methylphenol	1500 U
12.1-64-7 N-Nitroso-Di-n-Propviamine 200 U 13.72-1 Mexachioroethane 200 U 13.35-3 Nitrobenzene 200 U 13.35-3 Nitrobenzene 200 U 13.75-5 2-Nitrobnenoi /600 U 12.67-9 2.4-Dimethviphenoi /600 U 13.85-0 Benzoic Acid /600 U 13.83-2 2.4-DichloroethaxviMethane 200 U 13.83-2 2.4-DichloroethaxviMethane 200 U 13.83-2 1.2.4-Trichlorobenzene 100 U 13.83-2 1.2.4-Trichlorobenzene 100 U 13.83-3 Naphthalene 200 U 13.68-3 Hexachiorobutadiene 200 U 13.68-3 Hexachiorobutadiene 200 U 13.57-6 2-Methvinaphthalene 200 U 13.57-6 2-Methvinaphthalene 200 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.4.5-Trichlorophenoi /600 U 13.53-4 2.5-Trichlorophenoi /600 U	19638-32-9	bis(2-chloroisopropyi)Ether	sze u
Hexachioroethane  3-9-1 Ritrobenzene  3-9-1 Isoonorone  3-9-1 Isoo	·35.44-5	4-Methylphenol	1600 U
Hexachioroethane  38-35-3 Nitrobenzene  P-59-1 Isoonorone  13-75-5 2-Nitrobnenoi /600 U  13-75-5 2-Nitrobnenoi /600 U  13-85-0 Benzoic Acid /600 U  13-85-0 Benzoic Acid /600 U  13-83-2 2. 4-DichioroethoxviMethane  13-83-2 2. 4-Dichiorophenoi /608 U  13-83-2 2. 4-Dichiorophenoi /608 U  13-83-3 Naphthalene  13-68-3 Naphthalene  13-68-3 Mexachiorobutadiene  13-68-3 Mexachiorobutadiene  13-68-3 Mexachiorobutadiene  13-68-3 Mexachiorocystopentadiene  13-68-3 Mexachiorocystopentadiene  13-74-4 Mexachiorocystopentadiene  13-74-4 Mexachiorocystopentadiene  13-74-4 Mexachiorocystopentadiene  13-74-4 Mexachiorocystopentadiene  13-74-4 Mexachiorocystopentadiene  13-74-4 Pexachiorocystopentadiene  13-74-4 Dimethyl Phthalate  13-74-4 2-Nitroaniline  13-74-4 2-Nitroaniline  13-74-4 2-Nitroaniline  13-74-4 2-Nitroaniline  13-74-8 Acenaphthylene		N-Nitroso-Di-n-Propylamine	RYDU
38-35-3 Nitrobenzene SOC CA 38-35-1 Isophorone SOC CA 38-59-1 Isophorone SOC CA 38-75-5 2-Nitrophenoi /600 U 38-67-9 2. 4-Dimethylphenoi /600 U 38-67-9 2. 4-Dimethylphenoi /600 U 38-68-2 2. 4-Dichlorophenoi /608 U 38-68-3 Naphthalene SOC CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Hexachlorophenoi /600 CA 38-68-3 Local Calledone 38-68-4 Chloro-3-Methylphenoi /600 CA 38-68-5 CALLEDONE 38-76-6 CALLEDONE 38-76-7 CALLEDONE 38-76-7 CALLEDONE 38-76-7 CALLEDONE 38-76-7 CALLEDONE 38-76-7 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDONE 38-76-8 CALLEDO	3° 72 1	Hexachioroethane	
23.75.5 2-Nitrophenol /600 U 25.67.9 2. 4-Dimethylphenol /600 U 25.67.9 2. 4-Dimethylphenol /600 U 25.65.0 Benzoic Acid /600 U 25.65.0 Benzoic Acid /600 U 25.63.2 2. 4-Dichlorophenol /608 U 25.63.2 1. 2. 4-Trichlorophenol /608 U 25.62.1 1. 2. 4-Trichlorophenol /600 U 25.63.3 Naphthalene /600 U 25.67.8 4-Chloroaniline /600 U 25.67.8 Hexachlorophenol /600 U 25.67.4 -Chloro-3-Methylphenol /600 U 25.67.4 Hexachlorophenol /600 U 25.67.4 Hexachlorophenol /600 U 25.67.4 2. 4. 6-Trichlorophenol /600 U 25.67.4 2. 4. 5-Trichlorophenol /600 U 25.67.4 2. Nitroaniline /600 U 25.68.8 Acenaphthylene /600 U 25.68.8 Acenaphthylene	38-35-3	Nitrobenzene	
13.75-5   2-Nitrophenol   /600 U   13.67-9   2. 4-Dimethylphenol   /600 U   13.65-0   Benzoic Acid   /600 U   13.68-3   2. 4-Dichlorophenol   /608 U   13.68-3   1. 2. 4-Trichlorophenol   /608 U   13.68-3   Naphthalene   3/0 T   13.68-3   Hexachlorophenol   /600 U   13.68-3   Hexachlorophenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.68-3   Hexachlorophenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.57-6   2-Methylphenol   /600 U   13.58-7   2-Chlorophenol   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Acenaphthylene   /600 U   13.58-8   Ac	79.59.1	isconorone	الم صدع
25.67-9 2. 4-Dimethylphenoi /600 U  15.85-0 Benzoic Acid /600 U  15.85-0 Benzoic Acid /600 U  15.83-2 2. 4-DichloropethoxylMethane 83-0 (U  15.83-2 2. 4-Dichloropethol /608 U  15.82-1 1. 2. 4-Trichloropethol /608 U  15.847-8 A-Chloropethol /600 U  17.68-3 Mexachloroputadiene 82-0 U  17.68-3 Mexachloroputadiene 82-0 U  18.57-6 2-Methylphenoi /600 U  18.57-6 2-Methylphenoi /600 U  18.06-2 2. 4. 6-Trichlorophenoi /600 U  18.95-4 2. 4. 5-Trichlorophenoi /600 U  18.95-4 2. 4. 5-Trichlorophenoi /600 U  18.74-4 Pexachlorophenoi /600 U  18.74-4 2-Nitroanitine 82-0 U  18.74-4 2-Nitroanitine 82-0 U  18.74-4 2-Nitroanitine 82-0 U  18.74-4 2-Nitroanitine 82-0 U	13-75-5	2-Nitrophenol	
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10-83-2 2. 4-Dichlorophenol / 008 W. 10-82-1 1. 2. 4-Trichlorophenol / 008 W. 10-82-1 1. 2. 4-Trichlorophenol / 008 W. 10-82-1 1. 2. 4-Trichlorophenol / 007 W. 120-3 Naphthalene 3/0 T. 120-3 Naphthalene 3/0 T. 126-47-8 4-Chlorophiline / 00 W. 17-68-3 Hexachlorophitadiene / 00 W. 18-950-7 4-Chloro-3-Methylphenol / 000 W. 18-950-7 4-Chloro-3-Methylphenol / 000 W. 18-950-7 4-Chlorophiline / 00 W. 18-950-7 4-Chlorophiline / 00 W. 18-950-7 2-Chlorophiline / 00 W. 18-950-7 2-Chlorophiline / 00 W. 18-950-7 Z-Chlorophiline / 00 W. 18-950-8 Acenaphthylene / 00 W.	is as o	Benzoic Acid	
10-83-2 2. 4-Oichlorophenol / 008 W. 10-82-1 1. 2. 4-Trichloropenzene DOT 120-3 Naphthalene D/OT 136-47-8 4-Chloroaniline / 00 W. 17-58-3 Hexachloroputadiene / 00 W. 19-50-7 4-Chloro-3-Methylphenol / 600 W. 19-50-7 4-Chloro-3-Methylphenol / 600 W. 19-50-7 4-Chloro-3-Methylphenol / 600 W. 19-50-7 4-Chloro-3-Methylphenol / 600 W. 19-50-7 2-Methylphenol / 600 W. 19-35-4 2. 4. 6-Trichlorophenol / 600 W. 19-35-4 2. 4. 5-Trichlorophenol / 600 W. 19-35-4 2. 4. 5-Trichlorophenol / 600 W. 19-36-8 Acenaphthylene / 00 W. 19-36-8 Acenaphthylene / 00 W.		bisi-2-ChloroetnoxviMethane	
10-82-1 1. 2. 4-Trichlorobenzene DOT  120-3 Naphthalene B/OT  18-47-8 4-Chloroeniline B/O U  17-58-3 Mezachlorobutadiene B/O U  19-50-7 4-Chloro-3-Methylphenol B/O U  11-57-6 2-Methylphenol B/O U  11-57-6 2-Methylphenol B/O U  11-58-7 2-Chloro-3-Methylphenol B/O U  11-58-7 2-Chlorophenol B/O U  11-58-7 2-Chlorophenol B/O U  11-58-7 2-Chlorophenol B/O U  11-13-3 Dimethyl Phthalate B/O U  11-13-3 Dimethyl Phthalate B/O U  11-13-3 Dimethyl Phthalate B/O U	10-83-2		
20-3   Naphthalene   3/0 T     36-7-8   4-Chloroshiline   120 U     37-68-3   Hexachlorobutadiene   120 U     39-50-7   4-Chloro-3-Methylphenol   1600 U     31-57-6   2-Methylphenol   1600 U     31-57-6   2-Methylphenol   1600 U     31-68-2   2.4.6-Trichlorophenol   1600 U     31-35-4   2.4.5-Trichlorophenol   1600 U     31-35-4   2.4.5-Trichlorophenol   1600 U     31-35-7   2-Chloronaphthalene   1600 U     31-31-3   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U     31-31-31   Dimethyl Phthalate   1600 U	120-82-1		
26-47-8 4-Chloroeniline  17-58-3 Hexachlorobutadiene  19-50-7 4-Chloro-3-Methylphenol /600 U  11-57-6 2-Methylphenol /600 U  11-57-6 2-Methylphenol /600 U  11-57-6 2-Methylphenol /600 U  11-58-7 2-Methylphenol /600 U  11-58-7 Z-Chlorophenol /600 U  11-58-7 Z-Chlorophenol /600 U  11-58-7 Z-Chlorophenol /600 U  11-13-3 Dimethyl Phthalate  11-13-3 Dimethyl Phthalate	: 20.3		
17.68-3 Hexachlorobutadiene PSO UN 19.50-7 4-Chloro-3-Methylphenol /600 UN 31.57-6 2-Methylphenol /500 UN 17.47-4 Hexachlorocystopentadiene SO UN 18.06-2 2.4.6-Trichlorophenol /600 UN 18.95-4 2.4.5-Trichlorophenol /600 UN 18.95-7 Z-Chloronaphthalene SO UN 18.74-4 2-Nitroanitine SO UN 18.74-4 2-Nitroanitine SO UN 18.74-4 2-Nitroanitine SO UN 18.74-8 Acenaphthylene SO UN	X-47-8		
13.57.6 2-Methylphenoi /600 U  13.57.6 2-Methylphenoi /20 U  13.47.4 Hezachlorocystopentadiene 20 U  13.40.2 2.4.6-Trichlorophenoi /600 U  13.45.4 2.4.5-Trichlorophenoi /600 U  13.47.4 2-Nitroanitine 20 U  13.47.4 2-Nitroanitine 20 U  13.48.8 Acenaphthylene 20 U	17.68-3		A .
31.57.6 2-Methylnaphthalene /20_T 7.47.4 Hezachlorocystopentadiene 800 Kl 34.06.2 2. 4. 6-Trichlorophenol /600 Kl 5.35.4 2. 4. 5-Trichlorophenol /600 Kl 1.58.7 Z-Chloronaphthalene 800 Kl 3.74.4 2-Nitroaniline 800 Kl 1.11.3 Dimethyl Phthalate 800 Kl 3.76.8 Acenaphthylene 800 Kl	19 50-7		77
1.47.4 Hezachlorocystopeniadiene SOU U  14.06-2   2.4.6-Trichlorophenoi   /600 U  15.95-4   2.4.5-Trichlorophenoi   /600 U  15.58.7   Z-Chloronaphthalene   200 U  13.74.4   2-Nitroanitine   800 U  13.74.4   2-Nitroanitine   800 U  13.96.8   Acenaphthylene   800 U			
3.06-2 2. 4, 6-Trichlorophenoi /600 U 3.95-4 2. 4, 5-Trichlorophenoi /600 U 3.95-7 2-Chloropaphthalene 2. 0 U 3.74-4 2-Nitroaniline 2. 0 U 3.76-8 Acenaphthylene 2. 0 U	7.47.4		
3:35-4 2. 4. 5-Trichlorophenoi / Fac W 3:58-7 Z-Chloronaphthalene 2. 0 W 3:74-4 2-Nitroanitine 2. 0 W 11:13-3 Dimethyl Phthalate 2.0 W 3:36-8 Acenaphthylene 200 W	4-06-2		//
13.74.4 2-Nitroanitine RSO U  13.74.4 2-Nitroanitine RSO U  13.96.8 Acenaphthylene RSO U	5.95.4		
2-74-4 2-Nitroanitine 230 U  11-13-3 Dimetrivi Phthalate 200 U  13-96-8 Acenaphthylene 200 U	58.7		4
11.13.3 Dimetryl Phthalate POU			0
3-96-8 Acensonthylene 200 U			
770			So a
3-Nitrosnitine 500 4			420 W
		3-Nitroaniline	820 H

CAS		
Number		ICircle Ones
83-32-9	Acensonthene	Doru
51-28-5	2. 4-Dinitrophenol	1660 4
100-02-7	4-Nitrophenol	1600 U
132-64-9	Dibenzoturan	Pic U
121-14-2	2. 4-Dinitratoluene	82c U
606-20-2	2. 6-Dinitrotoluese	820 U
84-66-2	Diethylphthalate	820 U
7005-72-3	4-Chiorogranvi-chenvietner	810 U
86-73-7	Fluorege	876 4
100-01-6	4-Njerosniline	De u
534-52-1	4-6-Dinitro-2-Methylphenol	1600 4
86-30-6	N-Nitrosodionenviamine (1)	Beu
101-55-3	4-Bromopnenyi-phenylether	8 yo u
118-74-1	Hexachigrobenzene	Deu
87-86-5	Pentachiorophenoi	1500 W
85-01-8	Phenanthrene	200-
120-12-7	Anthracene	820 U
84-74-2	Di-n-Butylphthalate	J=527
206-44-0	Fluorenthene	3/07
92-87-5	Benzidine	Plau
129-00-0	Pyrene	TOOF
85-68-7	Butylbenzylphthalate	6007
91-94-1	3. 3'-Qichlorobenzidine	Ble 4
56-55-3	Benzala Anthracene	820 L
117-81-7	bial2-EthylnesvijPhthalate	38cc.B
218-01-9	Chrysene	196-7
117-84-0	Di-n-Octyl Phthalate	82c 41
205-99-2	Benzabifluoranthene	CECT
207-08-9	BenzotkiFluoranthene	270T
50-32-8	Benzota)Pyrene	7105
193-39-5	Indenal 1, 2, 3-cd)Pyrene	BULL
53-70-3	Dibenza, hlAnthracene	ایا مدع
191-24-2	Benzalg, h. i)Perviene	ايا معاقم
		3 20 . 4

(1)-Cannot be secerated from diphenylamine

# Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Concentration: Low	Medium	(Circle One)
Date Extracted/Prepared:	211	2181
Date Applicati	3/29/8	4

Conc/Dil Factor: \_\_\_\_\_/

CAS		
CAS Number	•	ug/l or ug/Kg (Circle One)
319-84-6	Alona-BHC	1.94
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	3.94
58-89-9	Gamma-8HC (Lindane)	10U
76-44-8	Heptachlor	2.9 ch
309-00-2	Aldrin	5.84
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosuifan I	<u> </u>
60-57-1	Dieldrin	- 11u
72-55-9	4.4'-00E	154
72-20-8	Endrin	1300
33213-65-9	Endosultan II	2/4
72-54-8	4.4:-000	124
7421-93-4	Endrin Aldenyde	2.74
1031-07-8	Endosuifan Suifate	344
50-29-3	4.4'-DDT	724
72-43-5		5.84
	Methoxychior	894
53494-70-5	Endrin Ketone	1204
57-74-9	Chlordane	- 33U
8001-35-2	Toxaphene	330 U
12674-11-2	Arector-1016	1804
11104-28-2	Arocior-1221	1504
11141-16-5	Arocior-1232	. 174
53469-21-9	Arocier-1242	·/>0U
12672-29-6	Arocior-1248	904
11097-89-1	Arocior-1254	1900 -4-
11096-82-5	Aroctor-1260	484

Vi = Volume of extract injected (ul)

V<sub>g</sub> ≈ Volume of water extracted (ml)

W<sub>2</sub> \* Weight of sample extracted (g)

V, = Volume of total extract (ul)

<b>V</b> .	or W <sub>3</sub>	 V1 /000	v <sub>i</sub>

5-7/19/86

## Organics Analysis Data Sheet (Page 1)

Laboratory Name ETC COSP.  Lab Sample ID No.   LL90V  Sample Matrix:   WA 17R	Case No: 550 / Contract No. 68-01-6766, 6788, 6789, 679
Data Release Authorized By:	Date Sample Received: 3/4/36
Volatile Co	mpounds
Concentration: Low	Medium (Circle One)
Date Extracted/Prepared:	03-08-86
Date Analyzed:	02-01-86
Conc/Dil Factor:	pH
Percent Moisture: (Not De	canted)

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	404
74-83-9	Bromomethene	4.00
75-01-4	Vinvi Chlonde	4.04
75-00-3	Chlorosthane	4.0U
75-09-2	Methylene Chloride	2185
87-84-1	Acetone	168
75-15-0	Carbon Disuffide	4.04
75-35-4	1, 1-Dichloroethene	4.04
75-34-3	1, 1-Dichlorosthane	1 4.0 U
156-60-5	Trans-1, 2-Dichlorostnene	4.04
67-66-3	Chloroform	4.00
107-06-2	1 2-Dichloroethane	4.0 W
78-93-3	2-Butanone	4.04
71-55-6	1, 1, 1-Trichloroethane	4.0W
56-23-5	Carbon Tetrachionide	4.04
108-05-4	Vinyi Acetate	4.014
75-27-4	Bromodichloromethane	4,04

CÁS Number		ug/lorug/Kg (Circle One)
78-87-5	1, 2-Dichloropropage	4.04
10061-02-6	Trans-1, 3-Dichtoropropene	
79-01-6	Trichloroethene	4.00
124-48-1	Dibromochloromethane	4.00
79-00-5	1, 1, 2-Trichloroethane	4.04
71-43-2	Benzene	4.04
10061-01-5	cis-1, 3-Dichloropropene	4.04
110-75-8	2-Chloroethylvinylether	Apri
75-25-2	Bromoform	4.00
108-10-1	4-Methyl-2-Pentanone	4.00
591-78-6	2-Hexanone	4.01
127-18-4	Tetrachioroethene	4.001
79-34-5	1, 1, 2, 2-Tetrachioroethane	
108-88-3	Toluene	4.011
108-90-7	Chlorobenzene	404
100-41-4	Ethylbenzene	4.04
100-42-5	Styrene	4.00
	Total Xylenes	1.43

#### Data Reserving Qualifiers

For reserving results to EPA, the following results qualifiers are used Additional flags or features explaining results are encouraged However, the definition of each flag must be explicit.

- Value if the result is a value greater than or equal to the disloction limit report the value.
- U Indicates compound was ahalized for but not delected. Report the minimum detection limit for the signate with the U (e.g. 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The features should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- Indicates an estimated value. This flag is used either withen estimating a consciouration for tendetively elemented compounds where a 1-1 response is assumed or when the mess spectral data indicated the presence of a compound that meets the identification critique but the result is less than the specified detection limit but greater than zero (e.g., 10.0 If limit of detection is 10 µg/1 and a concentration of 3 µg/1 is conculated, regert as 3.0
- C: This flag appres to pesticide parameters where the identification has been confirmed by GC/MS. Single comparing electricises ≥10 ng: ut in the final electric should be confirmed by GC/MS.
- This flag is used when the analyse is found in the blank as well as a sample. It indicates presenter proposed blank contamination and werns the data user to lake appropriets action.

Other teachic flags and learning may be required to graphy define the results. If used, they must be fully described and such description attached to the data summary report.

Nam	ETC	corp.	
Laboratory Nam	~~~	· · · · · · · · · · · · · · · · · · ·	
case No:	5507		

Sample Number BF ±83

# Organics Analysis Data Sheet (Page 2)

#### Semivolatile Compounds

Concentration: Low		
Date Extracted/Prepared:	ررد	0/46
Date Analyzed:	2/11/86	
Conc/Dil Factor:	1	

CAS Number		ug/ or ug/ Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	الامد
108-95-2	Phenoi	404
62-53-3	Aniline	וטסב
111-44-4	bis(-2-Chloroethyi)Ether	DOU
95-57-8	2-Chlorophenol	404
541-73-1	1. 3-Dichlorobenzene	<b>&gt;</b> 0u
106-46-7	1. 4-Dichlorobenzene	204
100-51-6	Benzyl Alcohol	>0 U
95-50-1	1. 2-Dichlorobenzene	204
95-48-7	2-Methylphenol	404
39638-32-9	bis(2-chloroisopropyl)Ether	2001
106-44-5	4-Methylphenol	404
621-64-7	N-Nitroso-Di-n-Propylamine	204
67-72-1	Hexachioroethane	204
98-95-3	Nitrobenzene	שב
78-59-1	Isophorone	2011
88-75-5	2-Nitrophenol	400
105-67-9	2. 4-Dimethylphenol	400
65-85-0	Benzoic Acid	400
111-91-1	bisi-2-ChloroethoxylMethane	204
120-83-2	2. 4-Dichlerophenet	404
120-82-1	1, 2, 4-Trichlorobenzene	701
91-20-3	Naphthalene	704
106-47-8	4-Chlorosniline	מסב
87-68-3	Hexachlorobutadiene	NOT
59-50-7	4-Chloro-3-Methylphenol	40 W
91-57-6	2-Methylnaphthalene	LOU
77-47-4	Hexachlorocyclopentadiene	المحد
88-06-2	2, 4 6-Trichlerephenol	Lou
95-95-4	2. 4. 5-Trichlorophenol	10U
91-58-7	2-Chloronaphthalene	١٧٥٧
88-74-4	2-Narosnitine	200
131-11-3	Dimethyl Phthalate	204
208-96-8	Acenephthylene	204
99-09-2	3-Nitroeniline	2011

CAS Number		ug/l o) ug/K
83-32-9	Acenephthene	بامد
51-28-5	2. 4-Dinitrophenol	404
100-02-7	4-Nitrophenol	40 U
132-64-9	Dibenzoturan	עסב
121-14-2	2, 4-Dinitrotaluene	المر
606-20-2	2, 6-Dinitrataluene	2014
84-66-2	Diethylphthalate	204
7005-72-3	4-Chlorophenvi-phenviether	200
86-73-7	Fluorene	200
100-01-6	4-Nitroeniline	204
534-52-1	4, 6-Dinitro-2-Methylphenol	AOU
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	٧٥٧
87-86-5	Pentachiorophenol	204
85-01-8	Phenanthrene	שטע
120-12-7	Anthracene	204
84-74-2	Di-n-Butylphthalate	2011
206-44-0	Fluoranthene	200
92-87-5	Benzidine	>0 U
129-00-0	Pyrene	>0U
85-68-7	Survivenzylenthalate	204
91-94-1	3, 3'-Dichlerobenzidine	204
56-55-3	Senacia)Anthracene	704
117-81-7	bialZ-EthylhesyllPhthelate	>0 U
218-01-9	Chrysene	you
117-84-0	Di-n-Octyl Photoslate	بانح
205-99-2	Benzalb)Fluoranthene	200
207-08-9	Benzakifluaranthene	204
50-32-8	Benzala Pyrene	<b>you</b>
193-39-5	Indenc(1, 2, 3-cd)Pyrene	200
53-70-3	Dibenzia, h)Anthracene	200
191-24-2	Benzelg, h. ilPerviene	אטעכ

<sup>(1)-</sup>Cannot be separated from dishenviamine

# Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Concentration		(Circle One)
Date Extracte	d/Prepared: 2/10/86	<u></u>
Date Analyze	d: 3/26/86	
Conc Dil Fac	tor:	
CAS Number		(Circle One)
319-84-6	Alona BHC	0.017
319-85-7	Beia-8HE	0.017-24
319-86-8	Delta-BHC	0.062 4
58-89-9	Gamma-BHC (Lindene)-	10:017
76-44-8	Heotachier	0.035 4
309-00-2	Alden	0.035 1
1024-57-3	Heptachior Epoxide	0.23
959-98-8	Endosulfan I	0.063
60-57-1	Dieldnn	0.090
72-55-9	4.4DDE	0.070
72-20-8	Endrin	سر ١٥٠١٦
33213-65-9	Endosultan II	0.075 4
72-54-8	4, 4'-000	0.017-
7421-93-4	Endrin Aldehvde	0.20 -
1031-07-8	Endosulfan Sulfate	0.43
50-29-3	4, 4'-CDT	0.035 -
72-43-5	Methoxycnior	0.53
53494-70-5	Endrin Ketone	0.70
57-74-9	Chlordane	-0,20 4
8001-35-2	Tozaghene	سد ه.د
12674-11-2	Acocies-1015	1.1
11104-28-2	Arocier-1221	0.87
11141-16-5	Arocior-1232	0.10
53469-21-9	Arocior-1242	اس : 0.73
12672-29-6	Arecier-1248	0.53 ~
11097-69-1	Arecter-1254	0.27 ~
11096-82-5	Arocior-1260	0.29

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>g</sub> = Volume of water extracted (mi)

W<sub>g</sub> = Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

٧,	1000	or W.	 ٧.	10000	V.	3
		a ",	 • t	<del></del>	٧l	

### Organics Analysis Data Sheet (Page 1)

paratory Name ETC Corp.  p Sample ID No VATUR	Case No: 507  QC Report No: 68-01-6766, 6788, 6789, 6790
WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER  WATTER	Date Sample Received: 2/6/85
	Medium (Circle One)
Date Analyzed: Conc/Dil Factor: Percent Moisture: (Not De	

کعن		ug/i or ug/Kg
March 1	Chloromethane	4,04
74.47.3		4.011
74-43-9	Bromomethane	
73-01-4	Vinyi Chloride	4.04
75-00-3	Chloroethene	4.04
73-03-2	Methylene Chlande	6.280
17-64-1	Acetone	30 B
73-15-0	Carbon Disulfide	404
75-35-4	1, 1-Dichloroethene	4. Cil
75-34-3	1, 1-Dichloroethane	1.0U
156-60-5	Trans-1, 2-Dichlorosthene	4.04
67-46-3	Chloroform	4.04
107-06-2	1, 2-Dichloroethane	404
73-93-3	2-Butanone	4.00
77 55-6	1, 1, 1-Trichloroethane	12.04
¥-23-5	Carbon Tetrachloride	4.04
:305-4	Vinvi Acetate	4.00
3-27-4	Bromodichloromethane	404

CAS Number	(	ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	404
10061-02-6	Trans-1, 3-Dichloropropene	4.36
79-01-6	Trichloroethene	4.04
124-48-1	Dibromochloromethane	4.04
79-00-5 -	1, 1, 2-Trichloroethene	4.04
71-43-2	Senzene	4.01
10061-01-5	cis-1, 3-Dichloropropene	404
110-75-8	2-Chloroethylvinylether	4.04
75-25-2-	Bromoform	12.0U
108-10-1	4-Methyl-2-Pentanone	17.0
591-78-6	2-Hezanone	6.3
127-18-4	Tetrachloroethene	404
79-34-5	1, 1, 2, 2-Tetrachioroethane	
108-88-3	Toluene	4.04
108-90-7	Chlorobenzene	4.04
100-41-4	Ethylbenzene	2:55
100-42-5	Styrene	4.04
	Total Xylenes	2.35

#### Data Requirery Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- \* the result is a value greater than or equal to the detection limit.

  19301 the value
  - indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The feathoute should read. U-compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
  - receives an estimated value. This flag is used either when relimpting a concentration for tentatively identified compaulities more a 1-1 response is assumed or when the most spectral data receives me presence of a compound that mosts the identification triving but the result is less than the specified detection limit but years man zero to 9. 10.0 If time of detection is 10 µg/1 and a concentration of 3 µg/1 is concusted, report on 3.3
- C This flag applies to promise parameters where the identification has been confirmed by GC/MS. Single component estimates ≥10 ng/ul in the final exercis should be continued by GC/MS.
- 8 This flag is used when the analyse is found in the blank as well as a sample. It imbestes possessy process stark communical and worms the data user to take appropriate action.
- Other Specific Riegs and leatnesses may be required to properly define the results. If used, they must be fully described and such description assessed to the data summary reges.

, sporatory	Name:	
•	5507	
case No: -		

Sample	Number
BFIS	U

### Organics Analysis Data Sheet (Page 2)

### Semivolatile Compounds

Concentration: Low	Medium (Circle One)
Date Extracted/Prepared	: 211 of 86
Date Analyzed:	2111186
Conc/Dil Factor	

Number	Circle One
62-75-9 N-Nitrose	odimetnylamine 2014
108-95-2 Phenol	404
52-53-3 Aniline	٧٥ عامد
111-44-4 bist-2-Ch	loroethvi)Ether >0 U
95-57-8 2-Chloro	nenol AD U
541-73-1 1, 3-Dich	loroberizene >0 U
106-46-7 1 4-Dich	lorobenzene 20 U
100-51-6 - Benzvi Al	const — >o u
95-50-1 1, 2-Dich	lorabenzene >0 U
95-48-7 2-Methyl	ohenoi 48 U
39638-32-9 bist2-chic	roisopropyliEther 2001
106-44-5 4-Methyli	nenol 40 W
621-64-7 N-Nitroso	-Di-n-Propvismine 2011
67-72-1 Hexachio	petnane 104
98-95-3 Nitrobenz	ene anu
78-59-1 Isophoron	١٧٥٤
88-75-5 2-Nitroon	
105-67-9 2, 4-Dime	thylphenol 43 U
65-85-0 Benzoic A	cid 40U
111-91-1 bisi-2-Chi	oroethoxylMethane 20 U
120-83-2 2. 4-Dich!	prophenol 40 4
120-82-1 1, 2, 4-Tri	chlarabenzene 20W
91-20-3 Naphthale	ne 204
106-47-8 4-Chieros	
87-68-3 Hexachlor	NOC sneibstude
59-50-7 4-Chloro-	-Methylphenol 40 M
	NG4 ensishing
77-47-4 Hexachlor	ocyclopentadiene 2011
88-06-2   2.4 6-Tri	hiorophenol 40U
95-95-4 2. 4. 5-Tri	chlorophenol 4 ou
91-58-7 2-Chloron	ephthalene 20 M
88-74-4 2-Nitroani	
131-11-3 Dimethyl F	
208-96-8 Acenegnit	
99-09-2 3-Nitroani	ine JUM

	•	
CAS Number		<b>Ug/10</b> u
83-32-9	Acenaphthene	Circh
51-28-5	2. 4-Dinitrophenol	4
100-02-7	4-Nitrophenol	A
132-64-9	Dibenzoluren	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	1 2
84-56-2	Disthylphthelate	1 - 3
7005-72-3	4-Chlorophenvi-phenviether	<u>بر</u> مر
86-73-7	Fluorene	=======================================
100-01-6	4-Nitroeniline	-
534-52-1	4. 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenviamine (1)	
101-55-3	4-Bramopnenyl-phenylether	>
118-74-1	Hezachioropenzene	<u>بر</u>
87-86-5	Pentachiorophenol	مر
85-01-8	Phenanthrene	40
120-12-7	Anthracene	ىر
84-74-2	Di-n-Butylohthalata	<u> </u>
206-44-0	Fluoranthene	<u>&gt;0</u> >∕°
92-87-5	Benzidine	- <del> </del>
129-00-0 ·	Pyrene	
85-68-7	Butythenzylphthelate	<u> </u>
91-94-1	3. 3'-Dichlorobenzidine	<u> </u>
56-55-3	Benzala/Anthracene	<u>کد</u> ہ ک
117-81-7	bist2-Ethylhesyl)Phthalate	<del>)                                      </del>
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthelete	<u>مر</u>
205-99-2	Benzate)Fluoranthene	نبر
207-08-9	Benzo(t)Fluoranthene	<u>ەح</u>
50-32-8	Senzala / Pyrana	<u> </u>
193-39-5	Indena(1, 2, 3-cd)Pyrene	<u>مح</u>
63-70-3		<u>مد</u>
191-24-2	Dibenzia, hiAnthracene	<u>~ ~ </u>
1501.64.6	Benzalg, h. ilPerviene	اصر

(1)-Cannot be separated from diphenylaming

## Organics Analysis Data Sheet (Page 3)

### Pesticide/PCBs

Medium (Circle One) (mal) Concentration: Date Extracted/Prepared: 2/10/86 Date Analyzed: 3/26/86 Conc. Dil Factor: ug/l grug/Kg CAS (Circle One) Number 319-84-6 Aleba-BHC Bers-BHC -0.017 319-85-7 Gotta BHC 319-86-8 0.062 Gemma-BHE (Lindarie) 0.017 58-89-9 75-44-8 Heesechier-0.035 309-00-2 Aldin 0.035 1024-57-3 Heprechior Epoxide --0.23 0.063 959-98-8 Endoswien i 60-57-1 Dieldrin .... 0.090 4. 4' DOE 72-55-9 0.070 72-20-8 Endrin-----0.12 33213-65-9 Endosulani J. 070 72-54-8 - -4, 4<del>-000</del>-0:017 7421-93-4 Endown-Alderivde 0.20 Endosulian Sullate-1031-07-8 0.43 50-29-3 4.4'-DOT ح *د*مہ 0.53 72-43-5 Methozychlor 53494-70-5 Endrin Katona 0.70 0,20 57-74-9 Chlordane 8001-35-2 Tossenene -2.0 12674-11-2 Arocior-1016-1. 1. 0.87 11104-28-2 Arocias-1221 Arocier-1232-0.10 11141-16-5 -53469-21-9 Acocios-1242 0.73 -12672-29-6 Arector-1248 0.53 11097-69-1 | Aroclor-1254 0. 27

V<sub>i</sub> = Volume of extract injected (ul)

0.29.

11096-82-5 | Aroctor-1260

V<sub>e</sub> = Volume of water extracted (mi)

W<sub>g</sub> = Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

1000 aw.	v, 10000	v <sub>i</sub> 3
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## Organics Analysis Data Sheet (Page 1)

Name ETC Corp.	Case No: S50
peratory Name ETC Corp.	OCREPOR No: 6V4377
Sample is	Contract No. 68-01-6766, 6788, 6789, 6790
in Release Authorized By: P.F.	Date Sample Received: 2/6/55
Volatile Co	ompounds
Concentration: Low	Medium (Circle One)
Date Extracted/Prepared:	288b
Date Analyzed:	25イン
Conc/Dil Factor:	pH
Percent Moisture: (Not De	ecanted

CAS number		ug/l or ug/Kg (Sircle One)
74-87-3	Chloromethane	4,04
1.83.9	Bromomethane	4.04
75-01-4	Vinyl Chleride	4.04
75-00-3	Chloroethane	4.0 W
15-09-2	Methylene Chlorida	-1.115.
17-64-1	Acetone	26B
75-15-0	Carbon Disulfide	4.011
3.35.4	1. 1-Dichloroethene	4.04
75.34-3	1, 1-Dichloroethane	4.00
36-60-5	Trans-1, 2-Dichlorosthene	4.04
17-66-3	Chloroform	404
:07-06-2	1. 2-Dichloroethane	4.04
3.93.3	2-Butanone	4.04
71-55-6	1, 1, 1-Trichtoroethane	4.04
<b>56-23-5</b>	Carbon Tetrachloride	4.00
108-05-4	Vinvi Acetate	4.00
75-27-4	Bromotichloromethane	4.0U

CAS Number	(	ug/l og ug/Kg  Circle One)
78-87-5	1, 2-Dichlorogropane	4.ou
10061-02-6	Trans-1, 3-Dichloropropene	4.00
79-01-6	Trichloroethene	4.04
124-48-1	Dibromochloromethane	4.04
79-00-5	1, 1, 2-Trichloroethane	4.04
71-43-2	Benzene	14.04
10061-01-5	cis-1, 3-Dichloropropene	4.04
110-75-8	2-Chloroethylvinylether	4.04
75-25-2	Bromoform	4.04
108-10-1	4-Methyl-2-Pentanone	5.7
591-78-6	2-Hexanone	4.00
127-18-4	Tetrachioroethene	4.00
79-34-5	1. 1. 2, 2-Tetrachloroethan	
108-88-3	Toluene	1.53
108-90-7	Chlorobenzene	4.04
100-41-4	Ethylbenzene	14.0U
100-42-5	Styrene	4.01
	Total Xylenes	2.7.5

#### Data Reserving Qualifiers

For regarding results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- The If the result is a value greater than or equal to the detection limit, report the value.
- Indicates compound was analyzed for but not defected. Report the minimum detection familities the sample with the U (e.g., 10U) based on necessary concentration (glutton action. (This is not necessarily the instrument detection famil.) The footnete should read. U-Compound was analyzed for but not detected. The number is the minimum attainable defection familities for the sample.
- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1-1 resource is assumed or when the mass specified data indicated the presence of a compound that meets the identification criteria but the result is tess than the operated detection limit but greater than zero (e.g., 10.1). If time of detection is 10 µg/1 and a concentration of 3 µg/1 is calculated, report as 3.1.
- C This flag appries to postissee agrameters where the identification has been continued by GC/MS. Single component postisses ≥10 ng/ul in the final express should be continued by GC/MS.
- 8 This flag is used when the analyse is found in the blank as will as a sample. It indicates possible/projects blank contamination and worms the data user to take appropriate action.

Other specific flags and leganoses may be required to prepare define the results. If used, they must be fully described and such description affected to the data summary regert.

Laboratory	Name:	-
rese No: _	5507	_

Sample Number BF175

# Organics Analysis Data Sheet (Page 2)

#### Semivolatile Compounds

Concentration: Low	Medium (Circle One)
Concentration: Low  Date Extracted/Prepared:	2110/86
Date Analyzed:	2111186
Conc/Dil Factor:	

CAS Number	(	ug/ or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	الافد
108-95-2	Phenol	404
62-53-3	Angline	וטסב
111-44-4	bisi-2-ChloroethyllEther	204
95-57-8	2-Chiorophenol	AOU
541-73-1	1. 3:Dichlorobenzene	<b>&gt;</b> 00
106-46-7	1. 4-Dichforobenzene	204
100-51-6	Benzyl Alcohol	20 U
95-50-1	1. 2-Dichlorobenzene	204
95-48-7	2-Methylphenol	404
39638-32-9	bis(2-chloroisopropyi)Ether	707
106-44-5	4-Methylphenol	400
621-64-7	N-Nitroso-Di-n-Propylamine	204
67-72-1	Hexachloroethane	2011
98-95-3	Nitrobenzene	שפע
78-59-1	Isophorone	707
88-75-5	2-Nitrophenol	404
105-67-9	2, 4-Dimethylphenol	4011
65-85-0	Benzaic Acid	400
111-91-1	bisi-2-Chloroethoxy)Methane	204
120-83-2	2. 4-Dichlorophenol	404
120-82-1	1, 2, 4-Trichlorobenzene	JON
91-20-3	Naphthalene	70M
106-47-8	4-Chloroeniline	<b>אסע</b>
87-68-3	Hexachlorobutadiene	700
59-50-7	4-Chioro-3-Methylphenol	40 W
91-57-6	2-Methylnaphthalene	701
77-47-4	Hezachlorocyclopentadiene	المحد
88-06-2	2. 4 6-Trichlaraphenal	404
95-95-4	2. 4. 5-Trichlorophenol	⊿ou.
91-58-7	2-Chloronaphthalene	١٧٥٤
88-74-4	2-Nitroeniline	200
131-11-3	Dimethyl Phthalate	3,00
208-96-8	Acenaphthylene	الامد
99-09-2	3-Nitroaniline	レラス

CAS		ug/loyug/Ka
Number		Circle One
83-32-9	Acanaphthene	עסג
51-28-5	2. 4-Dinitrophenol	40 U
100-02-7	4-Nitrophenol	40 u
132-64-9	Dibenzofuran	DOU
121-14-2	2, 4-Dinitrotoluene	١٩٥٨
606-20-2	2. 6-Dinnratoluene	אטער
84-66-2	Diethylphthalase	يامد
7005-72-3	4-Chlorophenvi-phenviether	200
86-73-7	Fluorene	704
100-01-6	4-Nitrosniline	2011
534-52-1	4, 6-Dinitro-2-Methylphenol	AOU
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	٧٥٧
87-86-5	Pentachiorophenol	400
85-01-8	Phenanthrene	بامر
120-12-7	Anthrecene	204
84-74-2	Di-n-Burylphthalate	20 U
206-44-0	Fluoranthene	2007
92-87-5	Benzidine	2011
129-00-0	Pyrene	
85-68-7	Butythenzylehthalate	<u>&gt;04</u>
91-94-1	3. 3'-Dichloropenzidine	
66-55-3	Benzola (Anthrecane	<u> </u>
117-81-7	bistZ-Ethylhesyl)Phthalate	>0 U
218-01-9	Chrysene	2001
117-84-0	Di-n-Octyl Phthalate	بان نبر الانتر
205-99-2	Benzo(b)Fluoranthene	
207-08-9	BenzottiFlugranthene	2001
50-32-8		<u> 20 U</u>
	Benzola)Pyrene	ممر
193-39-5	Indena(1, 2, 3-ad)Pyrene	<u> 200</u>
53-70-3	Dibenza, hjAnthracene	700
191-24-2	Benzolg, h. ilPerviene	<b>→</b> 0U

<sup>1)-</sup>Cannot be separated from digherylamine

## Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Medium Concentration: (Low) (Circle One) Date Extracted/Prepared: 2/10/86 Date Analyzed: 3/26/86 Conc Dil Factor: CAS ug/l drug/Kg Number (enO elania) 319-84-6 Aleba BHC 319-85-7 Bors BHC 00-319-86-8 DeHe-SHC 58-89-9 Gamma-BHC (Lindane) 0-0-17 76-44-8 Heptachior 0.035 309-00-2 Aldrin 0.0.35 1024-57-3 Mentachier Epoxide 0.23 959-98-8 Endosullant . -0.063 60-57-1 Dieldein 0.090 72-55-9 4.4'-DDE 9-970 72-20-8 Endrin 0.12 33213-65-9 Endosultan il 0.070 72-54-8 4,4'-000 0.017 7421-93-4 Endrin Aldehyde 0.20 1031-07-8 Endosulfan Sulfate 0.43 50-29-3 4, 4-00T--0.035 72-43-5 Methoxychlor 0.53 53494-70-5 Endrin-Ketone 0.70 57-74-9 Chlordane 0,20 8001-35-2 Toxaphene 2.0 12674-11-2 Arocior-1016 1. 1 11104-28-2 Arocior-1221 0.87 11141-15-5 Arocior-1232 0.1.0 53469-21-9 Arocior-1242 0.73 \* 12672-29-6 | Arocior-1248 0.53 11097-69-1 Arocier-1254 0. 27 11096-82-5 | Arocior-1260 0.29

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>g</sub> ≈ Volume of water extracted (ml)

W<sub>3</sub> = Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

					•		
Y.	1000	or W <sub>s</sub>	•	V	10000	V,	3

Sample Number
BF 589

#### Organics Analysis Data Sheet (Page 1)

Joratory Name ETC COFP.	Case No
umple Matrix: NATTR	Contract No: 68-01-6766, 6788, 6789, 6
gala Release Authorized By:	Date Sample Received:2/6/86
Volatile Cor	mpounds
	Medium (Circle One)
Date Extracted/Prepared:	>-8-86
Date Analyzed:	28 th Vacance alter
Conc/Dil Factor:	Hq
Percent Moisture: (Not Dec.	anted)

CAS Number	· ·	ug/l orug/Ke
74-87-3	Chloromethane	404
74-83-9	Bromomethane	4.04
75-01-4	Vinvi Chloride	4.00
75-00-3	Chloroethane	4.04
75-09-2	Methylene Chloride	38
17-84-1	Acetone	2.0883
75-15-0	Carbon Disulfide	4.00
75-35-4	1. 1-Dichloroethene	
75-34-3	1, 1-Dichtoroethane	2.45
:56-60-5	Trans-1, 2-Dichloroethene	4.04
67-66-3	Chlorotorm	4.04
07-06-2	1. 2-Dichtoroethane	4.04
7-93-3	2-Butanone	4.04
7.55-6	1, 1, 1-Trichlercethane	3872
\$6-23-5	Carbon Tetrachionide	361
138-05-4	Vinvi Acetate	4.00
3-27-4		4-04
	Bromodichloromethane	4.04

CAS Number		ug/larug/Kg
78-87-5	1, 2-Dichloropropene	1 4:0U
10061-02-6	Trans-1, 3-Dichloropropen	4.00
79-01-6	Trichloroethene	4,04
124-48-1	Dibromochloromethane	4.04
79-00-5	1, 1, 2-Trichloroethane	4.01
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropens	a.cu
110-75-8	2-Chloroethylvinylether	4.04
75-25-2	<b>Bromotorm</b>	4.04
108-10-1	4-Methyl-2-Pentanone	2.4丁
591-78-6	2-Hezanone	100
127-18-4	Tetrachloroethene	6,3
79-34-5	1. 1. 2. 2-Tetrachioroethane	404
108-88-3	Toluene	5,9
108-90-7	Chlorobenzene	46
100-41-4	Ethylbenzene	4.04
100-42-5	Styrene	6.
	Total Xylenes	4.04

Date Reserving Quelifiers

For reserving results to EPA, the following results qualifiers are used.
Additional flags or festiones explaining results are encouraged. Movever, the
definition of each flag must be explicit.

- If the result is a value greater then or equal to the detection limit.
- indicates commound was analyzed for but not detected. Regart the minimum detection time for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The features should read: U-Campound was analyzed for out not detected. The number is the minimum attainable detection limit for the sample.
- Indication on destinated value. This flag is used either when estimating a consentration for tensatively identified communities at 1 response is assumed or when the mass spectral detainding the presence of a compound that maste the dentification indicated the presence of a compound that means the dentification will be retained the result is less than the specified detection will built feature than tere in g. 10.11 If further of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report 45 3J
- C This flag against to consider parameters where the identification has been confirmed by GC/MS. Single comparent sessicions ≥10 ng/ul in the final exercic should be continued by GC/MS.
- 8 This flag is used when the analyse is found in the blank as well as a sample of indicates passages present blank contamination and warns the data user to take appropriate action
- Other specific flags and featnesss may be required to properly define the results. If used, they must be fully described and such description affected to the data summary report.

### Organics Analysis Data Sheet (Page 2)

### Semivolatile Compounds

	F +		
Concentration: Low	Medium	(Circle One)	
Date Extracted/Prepared	-110/86		
Date Analyzed:	3/12/	86	
Conc/Dil Factor	1		

	CAS Number		ug/ or ug/ (Circle Or
	62-75-9	N-Nitrosodimethylamine	>0.0
	108-95-2	Phenol	400
	62-53-3	Aniline	200
-	111-44-4	bist-2-Chloroethyl)Ether	>00
	95-57-8	2-Chlorophenol	400
- 1	541-73-1	1.3-Dichlorobenzene	200
- [	106-46-7	1 4-Dichlorobenzene	200
- 1	100-51-6	Benzyl Alcohol	200
П	95-50-1	1. 2-Dichtorobenzene	- 200
	95-48-7	2-Methylphenol	100
1	39638-32-	bisi2-chloroisopropyi)Ether	204
	106-44-5	4-Methylphenol	400
	521-64-7	N-Nitroso-Di-n-Propylamine	20U
1	67-72-1	Hexachioroethane	
1	98-95-3	Nitrobenzene	200
	78-59-1	isophorone	<u> 260</u>
	88-75-5	2-Nitrophenol	701
	105-67-9	2. 4-Dimethylphenol	404
1	65-85-0	Benzoic Acid	
1	111-91-1	bist-2-ChloroethoxviMethan	200
1	120-83-2	2. 4-Dichlerophenol	404
l	120-82-1	1, 2, 4-Trichlorobenzene	70M
П	91-20-3	Nachthalene	
	106-47-8	4-Chlorosniline	700
	87-68-3	Hexachlorobutadiene	2001
	59-50-7	4-Chloro-3-Methylphenol	40 U
	91-57-8	2-Methylnaphthalene	
-	17-47-4	Hezachlorocyclopentadiene	200
	8-06-2	2. 4 6-Trichlorophenol	200
_	5.95-4	2. 4. 5-Trichlorophenol	Zcu
_	1.58.7	2-Chloronaphthalene	<u> Aou</u>
_	0./4.4	2-Nitroaniline	Noc
	31.11.3	Dimethyl Phthalate	200
	28.96.8	censonthylene	204
9		Nitroaniline	2011
			上いい

CAS		
Number		<b>∪</b> 9/10 ug/
83-32-9	Acensonthene	Circle Or
51-28-5	2. 4-Dinitrophenol	200
100-02-7	4-Nitrophenol	400
132-64-9	Dibenzoturan	404
121-14-2	2. 4-Dinitrotaluene	برعد
606-20-2	2, 6-Dinitrotoluene	المر
84-66-2	Disthylphthalate	200
7005-72-3	4-Chlorophenyl-phenylethe	٢٥٨
86-73-7	Fluorene	
100-01-6	4-Nitroeniline	- 20u
534-52-1		2011
86-30-6	4. 6-Dinitro-2-Methylpheno	20 U
101-55-3	N-Nitrosodiphenvlemine (1)	<b>20</b> U
118-74-1	4-Bromophenyl-phenylether	20 U
87-86-5	Hexachiorobenzene	١١٥٨
85-01-8	Pentachiorophenoi	400
120-12-7	Phenanthrene	וטפע
84-74-2	Anthracene	انامد
000	Di-n-Butylphthelate	20 U
92-87-5	Fluorenthene	>04
129-00-0	Benzidine	>0 U.
85-68-7	Pyrene	you l
91-94-1	Buty/benzy/ontheliate	784
56-55-3	3. 3'-Dichlorobenzidine	2011
117-81-7	Senzora Mnthracene	>0U
218-01-9	bial2-Ethylhexyl)Phthalate	>0 U
	Chrysene	2001
200 00 0	Di-n-Octyl Phthelate	אייע
	Senzo(b)Fluoranthene	
207-08-9	Benzatk)Fluoranthene	2001
90-32-8	Benzale Pyrene	204
193-39-5	Indenai 1, 2, 3-ad)Pyrene	<u> </u>
3-70-3	Dibenza, hiAnthracene	200
91-24-2	Senzalg, h. ilPerviene	200
		>0U

(1)-Cannot be separated from dishards

Semple Number
BF589

# Organics Analysis Data Sheet (Page 3)

#### Pesticide/PCBs

Concentration		(Circle One)	
Date Extracte	d/Prepared: 2/10/86	<u> </u>	•
Date Analyze	d: 3/26/86	<u></u>	
Conc. Dil Fac	/		
ÇAS		ug/lorug/Kg	
Number	<u> </u>	(Circle One)	
319-84-6	Atone-8HC	م مدمها	
319-85-7	Bera-BHC	0.000	
319-86-8	Dena-BAC	0.072	
58-89-9	Germma-BHC (Emdene)	0.020	
76-44-8	Heatachtor -	0.040.	
309-00-2	Aldrin	0.040	
1024-57-3	Haptechior Epoxide	0.26	
959-98-8	Endosultan I	0-073 -	
60-57-1	Dielorm -	0.10	
72-55-9	4-4-00E	0.000.080	-412
72-20-8	Endum .	0.14	
33213-65-9	Endosulfan II		-412
72-54-8	4, 4'-000	0.020	
7421-93-4	Endrin Aldehyde	0.23	
1031-07-8	Endosulfan Sulfate	0.49	
50-29-3	4, 4'-00T	0.040. 4	
72-43-5	Methaxychlor	10.61 -	
53494-70-5	Endrin Ketone	0.80	
57-74-9	Chlordane	·0.23	
8001-35-2	Toxagnene	a.3	
12674-11-2	Aractar-1016	1.2	
11104-28-2	Aroctor-1221	1.0	
11141-16-5	Aracier-1232	.0.11:	
53469-21-9		0.84	
12672-29-6		0.61	
11097-69-1	Arocior-1254	0.31	
	Arocior-1260	0.33	
1030.07.3	1 ~ A A C A A A A A A A A A A A A A A A A	10.22	

V<sub>i</sub> = Volume of extract injected (ul)

V<sub>s</sub> = Volume of water extracted (ml)

W<sub>s</sub> = Weight of sample extracted (g)

V<sub>t</sub> = Volume of total extract (ul)

٧,	870	är W.	v.	10000	V	3
•		· · · · · ·	 •	<del></del>	•	

Sample	Number
BF	594

### Organics Analysis Data Sheet (Page 1)

aboratory Name. ETC	Corp.	Case No	•	
o Sample ID No	- 1494V	QC Report No:		<del></del>
gmple Matrix:	MATER	Contract No: 68-01-6766,	6788, 6789,	679
pala Release Authorized By:	C. Diveyer	Date Sample Received:	2/6/16	
	Volatile Co	mpounds		
	Consession	Medium (Circle One)		
	Date Extracted/Prepared:	7-8-86		•
	Date Analyzed:	2886		
	Cone/Dil Factor:	bH		
	Percent Moisture: (Not Dec	anied)		

CAS Number		ug/l dr ug/K
14-87-3	Chloromethane	(Circle One
74-83-9	Bromomethane	4.04
75-01-4	Vinvi Chloride	1 A. Cer
75-00-3	Chloroethane	AUN
75-09-2	Memylene Chioride	100
57-84-1	Acetone	1-14-
3-15-0	Carbon Disulfide	bbB.
3.35-4	1. 1-Oichloroethene	4.04
3.34.3	1, 1-Dichloroethane	4.04
56-60-5	Trans-1, 2-Dichloroethene	4.00
97-66-3	Chloroform	4.00
07-06-2	1: 2-Dichloroethane	4.00
8.93.3	2-Butanone	4.0U
1.55.6		270
·6-23-5	1. 1. 1-Trichloroethane	ADV
38-05-4	Carbon Tetrachloride	4.04
3.27.4	Vinvi Acetate	4.0U
	Bromodichloromethane	2 ou

CAS Number	(	49/19/49/Kg
78-87-5	1, 2-Dichloropropage	Circle One)
10061-02-6	Trans-1, 3-Dichloropropen	400
79-01-6	Trichloroethene	2 34
124-48-1	Dibramachloromethene	4.04
79-00-5	1 1 2 Teinble	4.04
71-43-2	1, 1, 2-Trichloroethane	1 d.ou
10061-01-5	Benzene	4.OU
110-75-8	cis-1, 3-Dichloropropene	2,01
75-25-2	2-Chiloroethylvinylether	4.04
	Bromeform	404
108-10-1	4-Methyl-2-Pentanone	3.75
591-78-6	2-Hexanone	4.00
127-18-4	Tetrachioroethene	
79-34-5	1. 1. 2. 2-Tetrachioroethane	200
108-88-3	Taluene	
108-90-7	Chlorobenzene	4.04
100-41-4	Ethylbenzene	<u> </u>
100-42-5	Styrene	4.04
	Total Xylenes	4.0U
20.0		204

Data Reserving Qualifiers

For reserving results to EPA, the following results qualifiers are used Additional flags or feathers; explaining results are encouraged. However, the definition of each flag must be explicit.

- If the result is a value greater than or equal to the detection limit
  - Indicates compound was analyzed for but not detected. Report the imminimum direction limit for the sample with the U is go 10UI based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The feathers should read. U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
  - Indicates an estimated value. This flag is used either infrances of a concentration for tendentery identified compounds where a 1.1 resource is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10,1). If himself detection is 10 µg/1 and a concentration of 3 µg/1 is categorised, report as 33
- C This flag against to posticide parameters where the identification has been confirmed by GC-MS. Single companion exercises ≥ 10 ng·ul in the final extract should be continued by GC-MS.
- B. This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ problems blank contamination and warns the data user to take appropriate action.
- Other Other specific flags and featheres may be required to prepare detune the require. If used, may must be fully described and such description attached to the data summery report.

ĩ	Laboratory	Name: ETC C	orp.	
	Coco Ma	5307	•	

Sample Number
BF59U

# Organics Analysis Data Sheet (Page 2)

#### Semivolatile Compounds

Concentration: Low	Medium (Circle One)
Date Extracted/Prepared:	2/10/16
Date Analyzed:	2/12/86
Conc/Dil Factor	

CAS Number		ug/ or ug/K (Circle One	<b>G</b>
62-75-9	N-Nitrosodimethylamine	١٥٨	7
: 38-95-2	Phenoi	18.75404	
62-53-3	Antline	200	
111:44-4	bis(-2-Chloroethyl)Ether	JOU.	7
95-57-8	2-Chlorophenol	404	7
541-73-1	1. 3-Dichlorobenzene	20U	1
106-46-7	1. 4-Dichlorobenzene	20 U	7
100-51-6	Benzyl Alcohol	1 20 U	1
95-50-1	1. 2-Dichlorobenzene	204	1
95-48-7	2-Methylphenol	404	1
39638-32-9	bis(2-chloroisopropyl)Ether	700	i
106-44-5	4-Methylphenol	203 400	22
621-64-7	N-Nitroso-Oi-n-Propylamine	204	1
57-72-1	Hexachtoroethane	204	1
98-95-3	Nitrobenzene	טפב	
78-59-1	Isophorone	340 300	<b>3</b>
89-75-5	2-Nitrophenol	404	
105-67-9	2. 4-Dimethylphenol	434	
55-85-0	Benzoic Acid	317400	<b>3</b>
111-91-1	bist-2-ChloroethoxylMethane	200	•
120-83-2	2. 4-Dichlorophenol	404	
120-82-1	1, 2, 4-Trichlorobenzene	200	
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline	70N 70N	
87-68-3	Hexachiorobutadiene	700	
59-50-7	4-Chiloro-3-Methylphenol	400	
91-57-6		الموح 171	$\bigcirc$
77-47-4	Hexachlorocyclopentadiene		(פיני
	2. 4.6-Trichlorophenol	2011	
86 86	2. 4. 5-Trichlorophenol	<u> </u>	
A	2-Chloronaonthaiene		
	2-Netrosnitine	701	
	Dimethyl Phthelete	200	
100 100	Acenephthylene	2041	Ţ
00.00	3. Nitrosniline	204	
	Sam de Lilling	フロス	(

_			
9	CA\$ Number		Ug/10) ug/
Ÿ	83-32-9		Circle O
1_		Acenephthene	عمد
72		2, 4-Dinitrophenol	400
4	100-02-7	4-Nitrophenol	400
-{	132-84-9	Dibenzoturan	ع مد
4	121-14-2	2. 4-Dinitrotoluene	بمر
-	606-20-2	2, 6-Dinitrotoluene	שער
4	84-66-2	Diethylphthatase	1 200
Į	7005-72-3	4-Chlorophenvi-phenviether	204
┨ .	86-73-7	Fluorene	3.57 -0-
ł	100-01-6	4-Nitroeniline	204
<b>!</b>	534-52-1	4, 6-Digitro-2-Methylphenol	201
123	-	N-Nitrosodiphenviernine (1)	200
1	101-55-3	4-Bromophenyl-phenylether	<u>ا الحر</u>
1	118-74-1	Hezachlorobenzene	
_	87-86-5	Pereschiorophenol	70.4
NE	85-01-8	Phenenthrene	400
	120-12-7	Anthracene	2014
	84-74-2	Di-n-Butylphthalata	<u> </u>
3	206-44-0	Fluoranthene	<u>۵۵۷</u>
	92-87-5	Senzidine	
	129-00-0	Pyrene	<u> </u>
	85-68-7	Butylbenzylphthalate	<u> </u>
	91-94-1	3. 3'-Dichlerobenzidine	<u> </u>
	56-55-3	Senzola (Anthracana	<u> </u>
	117-81-7	bial Z-Ethylheavi Phthalate	<u>&gt;0.01</u>
	218-01-9	Chrysene	<del>سهر 25</del>
22	117-84-0	Di-n-Octyl Phthelate	الم مر
	205-99-2	BenzabiFluoranthene	<u>, y</u>
	207-08-9		<u> &gt;0U</u>
	50-32-8	Senzolk/Fluoranthene	<u> </u>
	193-39-5	Berzzia) Pyrene	بمر
ļ	53-70-3	Indenat 1, 2, 3-adiPyrene	עסב
• 1		Dibenzia, hiAnthracene	ب مح
. (	191-24-2	Benzalg, h. ilPerviene	٧٥حد

(1)-Connex be separated from dicherulation

Case No:

8F594

# Organics Analysis Data Sheet (Page 3)

#### Pesticide/PC8s

Concentration	on: Low Medium	(Circle One)	
Date Extract	ed/Prepared:		_
Date Analyz	d: 3/1:186 4/	11/86 BP	
Conc. Dil Fa			<b>-</b>
CAS			-
Number	•	Ug/Bor ug/K	
319-84-6	Alpha-BHC	0.00	1
319-85-7	Seta-BHC	0.000	1
319-86-8	Delta-BHC	. 0.000	1
58-89-9	Gemma-BHC (Cindana)	سيعت	1
76-44-8	Hegischior	9.03	
309-00-2	Aldrin	oczu	1
1024-57-3	Heptachior Epozide	0.23m.	1
959-98-8	Endosulfan I	0.00	
60-57-1	Dieldm	0.09,00	i
72-55-9	4.4'-ODE	0.031	i
72-20-8	Endrin	0.13	
33213-65-9	Endosuifan il	.0.03	•
72-54-8	4, 4'-000	0.013	•
7421-93-4	Endrin Aldehyde	0.202	
1031-07-8	Endosulfan Sulfate	0.43	
50-29-3	4_4'-00T	0.03	İ
72-43-5	Methozyenior	0.53,25-	
53494-70-5	Endrin Ketone		
57-74-9	Chlordane	0.30	
8001-35-2	Tazzonene	0.25.0-	
12674-11-2	Aroctor-1016-	1.100	week-In
	Arocior-1221	سددن	w=4"
	Arector-1232		
53469-21-9	Aroctor-1242	0.10	÷
12672-29-6	Arocior-1248	0,33-	
11097-69-1	Arosior-1254	0.534	
	Aractor-1200	0.27	
		-0.29-	

- V<sub>i</sub> = Volume of extract injected (ul)
- V<sub>s</sub> \* Volume of water extracted (ml)
- W<sub>g</sub> = Weight of sample extracted (g)
- V<sub>t</sub> = Volume of total extract (ui)

V <sub>8</sub> - 1000 V <sub>1</sub> - 10000 V <sub>1</sub> - 15	
------------------------------------------------------------------	--

TABLE 1
Sample Descriptions
Central Steel Drum
Newark, New Jersey
CASE #5507

Sample ID Number	Organic Traffic Report #	Inorganic Traffic Report #	Date	Time (Hours)	Sample Type	Sample Location
51	BF <i>5</i> 90	MBF433	2/05/86	1108	Soil	Adjacent to conveyer belt in drain staging area.
S <b>2</b>	BF 59 1	MBF434	2/05/86	1126	Soil	Fifty feet from incinerator adjacent to conveyor beit.
S3	BF 592	MBF435	2/05/86	1135	Soil .	Adjacent to manifest waste storage on south side of incinerator.
54	BF 593	MBF436	2/05/86	1555	Soil	Adjacent to drainage ditch at southeast cor: of property.
GWI	BF 583	MBF 426	2/05/36	1235	Aqueous	Shallow well #102 by entrance.
GW2	BF 584	MBF 427	02/35/36	1400	Aqueous	Deep well #202 by entrance.
GW3	BF 585	MBF428	2/05/86	1545	- Aqueous	Deep well #204 at southeast corner of property.
SW1	BF 589	MBF432	2/05/86	1500	Āqueous	Surface water from drainage ditch at southeast corner of property.
Blank-I	BF 594	MBF437	2/05/86	N/A	Sample Blank	U.S. EPA Lab Edison, NJ.

#### INORGANIC DATA QUALIFIER

#### Footnotes:

NR - not required by contract at this time.

Form !:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]. Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates elemant was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

 E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

Indicates value determined by Method of Standard Addition.
 Indicates spike sample recovery is not within control limits.
 Indicates duplicate analysis in not within control limits.

- Indicates the correlation coefficient for method of standard addition is less than 0.995

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			Form	<u> </u>	Gw-	.	
	ract Laborato	cy Program			EPR Samp		
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	784						
NO.	NO. <u>72-3</u>	256		QC REP	ort no. 257		E-90-
T SWILE							
	.E	lements Ide	ntifie	d and Measur	ed		
	Lov		_	Medium			
ncentration:		5011	₹	Sludge		T	
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	<b>S</b>	g/Lor mg/k	g dry 1	veight (Circ.	le One)	•	
Aluminum	18040			Hägnesium.	_		P
Ancisony			•	Manganese'			-6
Arsenic	- <b>50</b> -F	\	•	Hercury	36	Cold	. \
Barium	4210		•	~ · · · · · · · · · · · · · · · · · · ·	493	dos. a	Ę
Beryllium	4.0u	•	•	Potassium			i
Cadmium	96		•	Selenium	<del>25</del> u	7	E
Calcium	234 00 C		•		9.3L		•
Chronium	877		,	·	203000	<del></del> ,	<u> </u>
Cobalt	69 6		٠,	Thallium	6.5uR		E
Copper	12600		1	Tia			- [
Iron	336000	Р		Vanadium			<u> </u>
		d é	24.	Zine .	15200		<del>:</del>
Lead	32100	•		AIRE .			

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LAB SAMPLE ID.	NO. <u>12-55.</u>	<u> </u>		·QC RE	PORT NO. 2	50	_
		ments Ide	ne:fle	d and Heasu	red	•.	
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fatrix: Vacer	s	011		Sludge	06	her	
. Aluminum	132 000 •			weight (Cir		•	_
. Antimony		Р.		Hagnesius			P
	590			Manganese'		00	- P
. Arsenic	<u> 50ur</u>	<u> </u>	15.		0.44	Cold	1.V
. Barium	3340	р	16.	Mickel	343		Ş
<u>Beryllium</u>	8	<u> </u>	17.	Potassium	२०५ ००	ა -	A
Cadatua		E P	18.	Selenium	-SETT	R	F
Calcium	1478,000	b	19.	Silver	<u>9.3u</u>		p
Chromium		<u>P</u>	20.	Sodium	4.88000	) ව	P
Cobalt	192 (		21.	Thallium	6.5UR		F
Copper		2 p	22.	Tin	37 L	ER	P
Iron	294000	P	23.	Vanadium	361		P
Lead	474 4		24.	Zine	1010		P
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## Form 1 C

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LAR BAME JTC	Environmental	Cnsl	ts.		NO. <u>550</u> 7	
SOU NO.	784	<del></del>			350/	
	. но. <u>72-325</u> 8	<del>-</del>		, QC RI	EPORT NO. 25C	
•	Elemen	nts Ide	ncifi	ed and Heast	ıred	
Concentration			,	Mediu	<del></del>	
Matrix: Water	So11	L		Sludge		
_						<del> </del>
-	ug/L) o	r mg/k	g dry	Aeigps (Cla	cle One)	
Aluminum	41700 \$	<u> </u>	13.	Magnesius		Đ
Antimony	59UR	<u> </u>		Manganese		ρ
. Arsenic	- <del>उँच्य दिर</del> -	È.		Mercury		ld.v.
. Barium	512			Nickel	61	ρ
. Beryllium	4.0u	P		Potassium		
. Cadmium	319 €	Б		Selenium	254 P	
. 'Calcium	255000	Đ		Silver		<u> </u>
. Chronium	88 E	Ð		Sodium	9.34	<u>P</u>
Cobalt	50 R	Б		Thallium	5900000	
. Copper	89 R	P		Tie	10UR	<u> </u>
. Iron	107000	ð			374 ER	Р
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Astimony 544.R P 16. Manganese 540 P  Arsenic 5646 F 15. Marcury 2.6 Cold.v  Barium 1190 p 16. Nickel 84 p  Beryllium 4.0u p 17. Potassium 7360 A  Cadmium 24 g P 18. Selenium 5.046 F  Calcium 68900 P 19. Silver 15 p  Chromium 233 g P 20. Sodium 63400 P  Cobalt 41 g P 21. Thailium 6.542 F  Copper 635 f P 22. Tin 96 g R  Iron 21200 P 23. Vanadium 334 P  Lead 2460 P 24. Zinc 1490 P  Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are used fined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page, however.		• .			F.	D		
U.S. EFA Contract Laboratory Program  Sample Management of Circle P.O. Sox 818 - Alexandria, VA 22313  INORGANIC ANALYSIS DATA SMEET  LAB BAME JTC Environmental Cnslts.  CASE NO. 5507  SON NO. 784  LAS SAMPLE ID. NO. 72-3259  OC REPORT NO. 1SC  Low V								SW.
P.O. Box 818 - Alexandria, VA 22313    Proceedings   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Processing   Proc	U.S. EPA Co	nerace Labora	cory P	rograe	•			
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LAB SAME JTC Environmental Cnslts. CASE NO. 5507  SON NO. 784  LAB SAMPLE ID. NO. 72-3259  COREPORT NO. 257  Elements Identified and Measured  Nedium  Soli Sludge Other  Low Nedium  Sludge Other  Low Nedium  Sludge Other  Low Nedium  Actinony 594 P 13. Magnesium 19800 P  Astinony 594 P 16. Manganese 540 P  Astinony 199 If. Mercury 2.6 Cold.v  Bartium 1190 p 16. Nickel 84 P  Beryllium 4.04 p 17. Pocassium 7360 A  Cadestum 24 F 18. Selenium 5704 F F  Cadestum 68900 P 19. Silver 15 p  Chromium 233 E P 20. Sodium 63400 P  Cobalt 41 E P 21. Thallium 6.540 F  Copper 635 P 22. Tin 96 E P p  Iron 21200 P 22. Tin 96 E P p  Iron 21200 P 22. Tin 1490 P  Laad 2460 F P 24. Zinc 1490 P  Antes: For reporting results to EPA, standard result qualifiers are uses defined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. However.	703/557-249	O FTS: 8-557	-2490					
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SON NO.   784   Case NO.   SSO		c Environme	jauni Istne	Coel	ANALY.	SIS DATA SHI	EET	
LAS SAMPLE ID. NO. 12-3259   QC REPORT NO. 25T						CVZ	: NO. <u>550</u> 7	
Elements Identified and Measured  Concentration:  Low V Hedium  Soil Sludge Other  Log/L' or mg/kg dry veight (Circle One)  Aluminum 3780 + P 13. Magnesium. 19800 P  Antimory 594 R P 16. Manganese 540 P  Arsenic 5542 F 15. Mercury 2.6 Cold.v  Barium 1190 P 16. Mickel 84 P  Beryllium 4.04 P 18. Selenium 7360 A  Cadaium 24 E P 18. Selenium 5704 F F  Calcium 68900 P 19. Silver 15 P  Caromium 233 E P 20. Sodium 63400 P  Cobalt 41 R P 21. Thallium 6.542 F  Copper 635 R P 22. Tin 96 ER P  Iron 21200 P 23. Vanadium 23 U P  Lead 2460 F P 24. Zinc 1490 P  Land 1800 Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are used defined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. Additional flags or footnotes explaining and contained on Cover Page.				,				
Social Sludge Other    Solia	LAB SAMPLE I	р. но. <u>72-</u>	3259			QC R	EPORT NO. 25	て
acrix: Vacer Soil Sludge Other    Soil Sludge Other	•		Element	s Ide	ncifi	ed and Moss		
Soil Sludge Other    Ug/L or mg/kg dry weight (Circle One)     Aluminum 3780 + P   13.   Hagnesium 19800   P     Ancisony 5942   P   16.   Hanganese 540   P     Arsenic 5042   F   15.   Hercury 2.6   Cold.v.     Barium 1190   p   16.   Mickel 84   P     Beryllium 4.00   p   18.   Selenium 7360   A     Cadmium 24   P   18.   Selenium 5.042   F     Cadmium 323   P   20.   Sodium 63400   P     Chronium 233   P   20.   Sodium 63400   P     Cobalt 41   P   21.   Thallium 6.502   F     Copper 635   P   22.   Tin 96   E   P     Iron 21200   P   21.   Vanadium 33   P     Lead 2460   P   24.   Zinc 1490   P     Index   Rate of the second of the second of such flags must be explicitant of such flags must be explicitant.	loncentration	ما ب	. V				-	
Aluminum 3780 + P 13. Magnesium 19800 P  Antinomy 594 R P 16. Manganese 540 P  Arsenic 504 F 15. Mercury 2.6 Cold.v  Barium 1190 p 16. Mickel 84 p  Beryllium 4.04 p 17. Pocassium 7360 A  Cadmium 24 E P 18. Selenium 5.04 F  Calcium 68900 P 19. Silver 15 p  Chromium 233 E P 20. Sodium 63400 P  Cobait 41 R P 21. Thallium 6.542 F  Copper 635 R P 22. Tin 96 E R P  Iron 21200 P 23. Vanadium 23 U P  Laad 2460 F P 24. Zinc 1490 P  Inotes: For reporting results to EPA, standard result qualifiers are us as defined on Cover Page. Additional flags or footnoces explaining and contained on Cover Page, however.	atriz: Vate	er /	Soil		•			
Antibody 594 R P 13. Magnesium 19800 P  Antibody 594 R P 14. Manganese 540 P  Arsenic 504 F 15. Mercury 2.6 Cold.v  Barium 1190 p 16. Nickel 84 p  Beryllium 4.04 p 17. Pocassium 7360 A  Cadmium 24 E P 18. Selenium 5.04 F  Calcium 68900 P 19. Silver 15 p  Chromium 233 E P 20. Sodium 63400 P  Cobalt 41 E P 21. Thallium 6.54 F  Copper 635 R P 22. Tin 96 E R P  Iron 21200 P 23. Vanadium 234 P  Lead 2460 F P 24. Zinc 1490 p  Maide NR Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, atandard result qualifiers are use as defined on Cover Page. Additional flags or footnoces explaining and contained on Cover Page, however.		,				Single	0th	er
Antisocy 594 P 13. Magnesium. 19800. P  Antisocy 594 R P 16. Manganese 540 P  Arsenic 504 F 15. Mercury 2.6 Cold.v  Barium 1190 P 16. Nickel 84 P  Beryllium 4.04 D 17. Pocassium 7360 A  Cadmium 24 E P 18. Selenium 5.04 F  Calcium 68900 P 19. Silver 15 D  Chromium 233 E P 20. Sodium 63400 P  Cobalt 41 E P 21. Thallium 6.54 F  Copper 635 R P 22. Tin 96 E R P  Iron 21200 P 23. Vanadium 234 P  Lead 2460 F P 24. Zinc 1490 P  Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, atandard result qualifiers are use as defined on Cover Page. Additional flags or footnoces explaining and contained on Cover Page, however.		6						
Antisony 59 LR p 16. Manganese 540 p  Arsenic 50 LR f 15. Mercury 2.6 Cold.v  Barium 1190 p 16. Mickel 84 p  Beryllium 4.0u o 17. Potassium 7360 A  Cadmium 24 f P 18. Selenium 5.00 f  Calcium 68900 P 19. Silver 15 p  Chromium 2.33 f P 20. Sodium 63400 p  Cobalt 41 R p 21. Thallium 6.5 LR f  Copper 635 R p 22. Tin 96 f R p  Iron 21200 P 23. Vanadium 23 u p  Lead 2460 F P 24. Zinc 1490 p  Antisony 5940 F P 24. Zinc 1490 p  Inotes: For reporting results to EPA, standard result qualifiers are us as defined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page, however.	Alumiana	3750	E/L DE	ag/k	g drý	weight (CI:	cle One)	i
Arsenic Source F 15. Manganese 540 P  Arsenic Source F 15. Mercury 2.6 Cold.v  Barium 1190 p 16. Nickel 84 p  Beryllium 4.0u p 17. Potassium 7360 A  Cadeium 24 E P 18. Selenium 5.0u E F  Calcium 68900 P 19. Silver 15 p  Chromium 233 E P 20. Sodium 63400 P  Cobalt 41 E P 21. Thallium 6.5u E F  Copper 635 P p 22. Tin 96 E P P  Iron 21200 P 23. Vanadium 23 u P  Lead 2460 F P 24. Zinc 1490 p  Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are us as defined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page. however.		2180	<del>7</del>	<u> </u>	13.	Magnesius	19800	P
Barium 1190 p 16. Nickel 84 p  Beryllium 4.0u p 17. Pocassium 7360 A  Cadmium 24 g P 18. Selenium 5.04 g  Calcium 68900 P 19. Silver 15 p  Chromium 233 g P 20. Sodium 63400 p  Cobalt 41 g P 21. Thallium 6.5u g F  Copper 635 g P 22. Tin 96 g R  Iron 21200 P 23. Vanadium 23 u P  Lead 2460 f P 24. Zinc 1490 p  Maide NR Auto An Percent Solids (I) NR  Inocas: For reporting results to EPA, standard result qualifiers are used fined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page, however.				p	-16.	Hanganese	540	P
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Beryllium 4.04 o 17. Potassium 7360 A  Cadmium 24 g P 18. Selenium 5.04 g F  Calcium 68900 P 19. Silver 15 p  Chromium 233 g P 20. Sodium 63400 P  Cobalt 41 g P 21. Thallium 6.54 g F  Copper 635 g P 22. Tin 96 g R P  Iron 21200 P 23. Vanadium 334 p  Lead 2460 g P 24. Zinc 1490 p  Ande NR Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are used affined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.								
Calcium 68900 p 19. Silver 15 p Chromium 233 & P 20. Sodium 63400 P Cobalt 41 & P 21. Thallium 6.5 UR F Copper 635 & P 22. Tin 96 & R P Iron 21200 P 23. Vanadium 23 U P Lead 2460 & P 24. Zinc 1490 P Auto An Percent Solids (I) NR Inotas: For reporting results to EPA, standard result qualifiers are use as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.		4.00		0				A
Chromium 233 £ P 20. Sodium 63400 P  Cobalt 41 £ P 21. Thallium 6.5 U. F  Copper 635 R P 22. Tin 96 £ R P  Iron 21200 P 23. Vanadium 33 U P  Lead 2460 F P 24. Zinc 1490 P  aide NR Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are used fined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicated.	Cadalus	24	٤	P				
Cobalt 41 R p 21. Thallium 6.5 UR F  Copper 635 P p 22. Tin 96 ER p  Iron 21200 P 23. Vanadium 23 U p  Lead 2460 P 24. Zinc 1490 p  aide NR Auto An Percent Solids (I) NR  Inotas: For reporting results to EPA, standard result qualifiers are us as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicated:  and contained on Cover Page, however.	Calcium	68900		_				<u> </u>
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Izon 21200 P 23. Vanadium 23 L P  Lead 2460 P 24. Zinc - 1490 P  aide NR Auto An Percent Solids (I) NR  inotes: For reporting results to EPA, standard result qualifiers are usedefined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicited:  and contained on Cover Page, however.	Copper	6351	2					
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inotes: For reporting results to EPA, standard result qualifiers are used defined on Cover Page. Additional flags or footnotes explaining and contained on Cover Page, however.	ilde		Auto					P
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. Antimony	<u> </u>				Hanganese'	716	P
I. Arsenic		·	<u> </u>		Hercury	4,7	Cold.V.
. Sarium	3310		<u> </u>	16.	Nickel	110	Р
. Beryllium	3.0u	<del></del>	0	17.	Pocassium	1340u	A
. Cadmium	115 R		<u> </u>	18.	Selenium	194 F	2 F
. Calcium	19900 *		9	19.	Silver	7.1u r	
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. Cobalt	53		p	21.	Thailium	5.0u	F
O. Copper	916			22.	Tin		
l. Iron	20000		P		Vanadium		<del></del>
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anide		Auto			Zine	3400	Р
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LAS SAME JTC	Environmen 784	tal Cns	ltš.		. No. <u>5507</u>	
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lencentration:				Hedi		
letria: Vater	•	So11/	-	Sludge		<b>t</b> .
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. Aluaisus	7070 =	P P		Magnesium		7 -
. Antimony	464 R	ρ		Manganese		P
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Barium	6470			Mickel	1.2	Cold.v.
Beryllium	3.14			Potassium	132	Р
Cedatus	97R	Б		Selenium	1370u	A
Calcium	18200 *	þ		Silver	3.9V R	
Chronium	1360	Р		Sodium	7.3U'R	
Cobalt	129	P		Thallium	<u> 3910u</u>	Р
Copper	1250	Р	22.		<u>5.1u</u>	F
Iron 4	09000	P		Vacadium	1780 +	Р
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trix: Vate	So1	1 /		Sludge	Othe	ır
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Aluminum	9770	P	13.	Hagnesius.	4420	
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Vasenic	9.3	<u>F'</u>	15.	Mercury	2.21	Cold.V.
Barium	<u> 554</u>	D	16.	Nickel	54	ρ
Beryllium	3.1u	<u> </u>	17.	Potassium	1360u	A
Cadmium	112	Р	18.	Selenium		R F
Calcium	4710 #	P	19.	Silver		2 * 0
Chronium	159	Р	20.	Sodium	38701	
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Copper	295	Р	22.	Tin	112 +	P.
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ple Management Office . Box 818 - Alexandria, VA 22313			MBF 4	21
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INORGANIC	MALYSI	S DATA SHEE	7	
EARE JTC Environmental Cost	ts.	CASE	NO. <u>55</u> 07	
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ug/L) or egyc		eight (Circ	le One)	
Aluminum 1704 P	13.	Magnesius.	9.20U	9
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treenic 6.5 to F	15.	Mercury	0.50n co	ld.v
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adatus 5.0UE P		Selenium	F-0-1 2	F
aleius 1260U p		Silver	9.3u	
promium 9.44 E P		Sod1um	4980u	P
obale 1842 P				
pper QIUR P	22.	Thallium	6.SUR	<u>F</u>
oa 88U P		Tin	374 812	Р
4 5.0U + F	23.	Vanadium	<u> 23u</u>	9
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NR Auto An		nc Solids (		



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SAMPLE No	COLI DATE	LECTED	BY		PO	INT OF G	OLLECT	ION	
E FM12451	09/06/88	13:30				MP-1, CO		• • • • • • • • • • • • • • • • • • • •	FIII
F SP TOXICITY PARAMETE	R		RESULT	EPAI	NCL	NDL	UNITS	DATE	INITS
ARSERIC, EPTOX LEACH	ATE		0,006	D004	5.0	0.001	MG/L	09/15/88	MS
BARITH, BPTOX LEACHA	ti.		1.7	0,005	100	0.10	NG/L	09/15/88	. 6 G
CADRIUM, EPTOX LEACH	NTE,		0.30	D:006	1.0	0.005	MG / I	09/15/88	GG
CHRONIUM, EPTOR LEAC	HATE		<0.025	D007	5,0	0.025	MG , w	09/15/88	90
LEAD, EPTOI LEACHATE			2.2	D008	5,,0	0.001	NG/L	09/15/88	#S
HERCURY, SPION LEACH!	\TB		<0.001	0009	0.20	0.001	NG/L	09/15/88	RÄ
HICKEL, EPTON LEACHAI	I.E.		0.071			0.040	MG/L	09/15/88	ē Ģ
SELERIUM, EPTOX LEACH	IATE	•	0.002	D010	1.0	0.001	NG/L	09/15/88	9.5

NUMBER CERTIFICATION 12129

VINCERT J. POGLIESE VICE-PRESIDENT



	A	NALYS	ALYSIS REPORT								
SAMPLE No	COLI DATE	ECTED TIME	ВУ	PO	INT OF COL	LECTION					
E812451   09/06/88		E812451   09/06/88		3812451   09/06/88		13:30	•		MP-1, COMP		
TEST DESCRIPȚIO			RESULT	KDĻ	UŅITS	DATE	INIT				
CORROSIVITY			RC			09/19/33	::				
CYANIDE REACTIV	ITY		<b>41,.5</b>	1.5	KG/KG	09/03/35	Ç <b>λ</b>				
IGNITABILITY (F)	LASHPOINT)		>150		SEG !	19/09/98	<u> </u>				
PETROLBUM HYDRO	CARBONS		12000	50	%G/KG	19/09/88	HBH				
PHENOLICS, TOTAL	i.	,	50	2.5	MG/KG	39/13/38	K S				
SOLIDS, TOTAL PI	RCENT		69	2,0	ŧ	09/09/88	DMC				
SULFIDE REACTIVE	ITY		< 20	20	HG/KG	69/09/25	<u> </u>				
pH (FIRAL)		•	5.1		31	09/13/98	8.4				
pH (INITIAL)			5.1		5 🗓	39/13/89	RM				

TO/NG = PPB HG/NG \* PPM HDL = METHOD DETECTION LIMIT ALL RESULTS REPORTED ON A DRY WEIGHT HASIS

NUDER CERTIFICATION 12129

VINCENT J. PUGLIESE VICE PRESIDENT



		NNAL	YSIS				, ,	
SAMPLE NO   DAT	COLLECTED TE   TIME	l BY I		PO	INT OF C	OLLECT:	ION	
E812451   09/00	5/88   13:30   	11N   	SOIL - C STOCK F1					M   
Terroricity Parameter		RESULT		XCT.	NDL	UNITS	DATE	INITE
ARSENIC, EPTOX LEACHATE		0.006	D004	5.0	0.001	HG/L	09/15/88	MS
SARIUM, BPTON LEACHATE		1.7	0005	100	0.10	KG/L	09/15/88	GG
CADRIUM, EPTOX LEACHATE		0.30	D006	1.0	0.005	₩6\r	09/15/88	66
HRONIUM, EPTOX LEACHATE		<0.025	D007	5.0	0.025	NG/L	09/15/88	GG
LEAD, EPTOX LEACHATE		2.2	0008	5.0	0.001	KG/L	09/15/88	MS
MERCURY, BPTOX LEACHATE		<0.001	D009	0.20	0.001	HG/L	09/15/88	ŖŇ.
NICKEL, EPTOX LEACHATE		0.071		· ·	0.040	KG/L	09/15/88	éē
SELENIUM, EPTOX LEACHATE	- 3	0.002	0010	1.0	0.001	KG/L	09/15/88	¥S.

HJDEP CERTIFICATION 12129

VINCENT J. PUGLIESE VICE-PRESIDENT



	A	NALY	SIS	S REPORT						
SAMPLE No	COL   DATE	LECTED   TIME	ВЧ	POINT OF COLLECTION						
E812451 	09/06/88     	13:30	MN		COMP-1, COME SOILS CENTE					
TEST DESCRIPTION	<b>,</b>	,	RES	ULT KOL	ZTIKÚ	DATE	INITS			
CORROSIVITY	•		N C			09/19/88	10			
CYANIDE REACTIV	ITY		· ci	,5 1.5	йe`\ke	09/09/88	CA			
IGNITABILITY (F)	LASHPOINT)		· >1	50	DEG 7	09/09/88	C.A			
PETROLEUM HYDRO	CARBORS		. 12	900 50	HG/KG	09/09/88	48%			
PHENOLICS, TOTAL	L , ·	•	Š.0		NG/KG	09/13/88	K S			
SOLIDS, TOTAL PI	BRCENT		69	2-0		09/09/88	อหิด			
SULPIDE REACTIVE	ITY		< 2	0 20	NG/KG	03/03/88	CA			
pH (FIRAL)	•		ï.	1	su	09/13/88	. RR			
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VINCENT J. PUGLIESE VICE-PRESIDENT



	P			SIS	REF	THO					
SAME	SAMPLE NO   COLLECTED   DATE   TIME   BY				POINT OF COLLECTION						
E813	2451	09/06/88     	13:30   -  -	MN		- CSD-COMP PILED SOI					
	TEST DESCRIP	TION			RESULT	KDL	UNITS	DATE	INITS		
•	PCB'S					v					
1	AROCHLOR 10	16		******	y D		neike –	19/15/88	RH		
•	AROCHLOR 12	21	•		ND	1900	UG/KG	. 09/15/88	2.4		
<b>n</b>	AROCHLOR 12	32			N D	1300	NG/RG	19/15/98	1.H		
	AROCHLOR 12	42			ND	1400	UG/KG	09/15/88	1.1		
_	ARGCHLOR 12	48			ND	1969	UG/KG	09/15/88	RH		
	AROCHLOR 12	54			330000	1900	ne i ke	_09/)5/88	24		
•	AROCHLOR 12	<b>5</b> 9			CR	1900	UG/KG	09/15/88			

NUDER CERTIFICATION 12129

VINCENT J. FÜGLIESS VICE-PRESIDENT



	A)	YILVE	មាន	REI	PORT			
SAMPLE No	COLI	LECTED	ВУ	   	P01	NT OF COL	LECTION	i si si i ci ci ci
E812452	09/06/88   	- medeler   MN 	SOIL - CSD-B1, BACKROUND SAMPLE,   CORNER, 0-6" CENTRAL STEEL DRUM					
TEST DESCRIPTIO	, = c = = = = = = = = : 	, , , , , , , , , , , , , , , , , , , ,		ESULT	KDJ	VHITS	DATE	
SOLIDS, TOTAL P		4	8	2 .	2.0	3	09/09/88	il bhe
ANTIHONY			2	7	0.10	NG / KG	09/14/88	<b>XS</b>
ARSERIC			6	. 4	0,10	He / RG	09/14/58	MS_
BERYLLIUN			¢	0.50	0.50	#G / KG	09/14/88	6 Ģ
CYDKIAK	••••		5	7	0.50	Heire	99/14/88	଼ ହେ
CHRONIUN			8	80	2.5	<u> </u>	09/14/88	ପୃତି
COPPER			. 1	90	2.0	MG/KG	09/ <u>14</u> /88	6.6
LEAD			4	300	. 13	MG/L	09/15/98	, A'H
SICKEL			7	5	4.6	MG/RG	09/14/88	35
SELENIUN				. 4.	9.19	KG/KC.	09/14/88	. 35_
THALLIUN	·			0.10	2.10	_ XC\XC	39/14/88	H5_
ZINC	····		;	700	5.0	MG/KG	09/14/88	èé

NUDER CERTIFICATION 12123

VINCERT 1. PUGLIESE VICE-PRESIDERT



ANALYSTS				REPORT							
SAMPLE NO	SAMPLE NO   COLLECTED   DATE   TIME   BY					POINT OF COLLECTION					
E812452	09/06/88	14:00  	MN		- CSD-B1, 1 R, 0 6" CE			1W			
TEST DESCRIPT	101			RESULT	HDL	UNITS	DATE	INITS			
PCB'S											
AROCHLOR 101	5	•		NO	790	UG/KG	09/14/88	7.8			
AROCHLOR 122	11_			NO	790	ÄC\KG	09/14/88	<del>3</del> 3			
AROCHLOR : 2		<b></b> .		80	790	DG/KG	09/14/88	. 83			
AROCHLOR 12	12		• • • •	R D	790	UG/XG	09/14/88	- 12			
AROCHLOR 124	18	<u></u> .		ND	790	UG/XG	09/14/88	3.2			
AROCHLOR 12				50000	790	ne/ke	09/14/88	22			
• • • • • • • • • • • • • • • • • • • •				N D	790	UG/KG	09/14/88	2.3			

NUMBER CERTIFICATION 12129

VINCENT J. PUGLIESE VICE-PRESIDENT



ANALYS				REP	REPORT					
SAMPLE No	SAMPLE No   COLLECT				POINT OF COLLECTION					
E812453	09/06/88   	14:30	MN				UND SAMPLE. STEEL DRUM	, sw		
TEST DESCRIPTIO	# # # # # # # # # # # # # # # # # # #	1 E P E E E E		RESULT	HDL	URITS	DATE	INITS		
SOLIDS, TOTAL P	BRCBAT			75	2.0		09/09/88	DHC		
ARTIKONY		*	•	89	0.10	HG/KG	09/14/88	HS		
ARSENIC				5.3	0.10	KG/KG	09/14/88	X'S		
BERYLLIUM				<0.50	9.50	HG/KG	09/14/88	GG		
CADNIUN				65	0.50	HG/ <u>KG</u>	09/14/88	<u> </u>		
CHRONIUN			,	1200	2.5	HG/KG	09/14/88	56		
COPPER	<b></b>			970	2.0	KG/KG	09/14/88			
LBAD				6500	10	KG / L	09/15/88	ни		
HICKEL				160	4.0	HG/KG	09/14/88	GG		
SELERIUM			7	1.9	0.10	NG/KG	09/14/88	¥5		
THALLIUM	0.0 to -0.14 (000 (00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00 to -0.00			0.12	3.10	HG/KG	09/14/88	Ã2		
ZIBC				35,00	5.0	MG/KG	09/14/88	<u> </u>		

NJDEP CERTIFICATION 12129

VINCENT J. PUGLIESE VICE-PRESIDENT



	A	NALY	នកន	REP	ORT	agrapa apropos to 140 € 180 € 180 €		
SAMPLE NO	COLI	ECTED TIME	ВЧ		POIN	r or colli	ECTION	
E812453	09/06/88	14:30	MN		CSD-B2, 1			W  -  -
TEST DESCRIPT	TOR			RESULT	KDL	PITE	DATE	INITS
FCB'S AROCHLOR 101	6			ND	1700	UG/KG	09/15/88	RH
AROCHLOR 127	A contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of			ַבּאָ	1700	ne/re	09/15/88	RH
AROCHLOR 123	2			D	1700	UG/RG	09/15/88	RA
AROCHLOR 124	2		ு வக்கள்	, ND	1700	JG/KG	09/15/88	RH
AROCHLOR 124	8			D	1700	UG/KG	09/15/88	RH
AROCHLOR 125	4	s & 0114 (11 <b>0</b> 1)		24000	1700	<u>U</u> G/KG	09/15/88	RH
AROCHLOR 126	jo	*.		ND	1700	JG/KG	09/15/88	3H

VINCENT J. PUGLIESE VICE-PRESIDENT

NJDEP CERTIFICATION 12:29



# ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

CLIENT : SORGE METHOD : SW846 8240 ANALYSIS DATE: 09/13/88 DATA FILE : >B7198

	COMPOUND	RESULT (ug/kg)	MDL (ug/kg)	Q
123	ACROLEIN ACRYLONITRILE BENZENE BROMOFORM BROMODICHLOROMETHANE BROMOMETHANE CARBON TETRACHLORIDE	ND ND 15 ND ND		J
6) 7) 8) 10)	CHLOROBENSENS	ND 170 ND ND ND	36 333 733 736 733	
123456789012345678901234567890123	2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE CIS-1,3-DICHLOROPROPENE DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHYLENE trans-1,2-DICHLOROPROPENE trans-1,3-DICHLOROPROPENE 1,2-DICHLOROPROPANE ETHYLBENZENE METHYLENE CHLORIDE	ND ND ND 540 3900	006669766776769666666666666666666666666	.7
18) 19) 201 212 23	1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHYLENE trans-1,2-DICHLOROETHYLENE trans-1,3-DICHLOROPROPENE 1,2-DICHLOROPROPANE	9.2 9.2 ND ND	36 36 36 36 36	J
145678 1222222	1 1 2 2 TETRACHLOROETHANE TETRACHLOROETHYLENE	280 233 ND / 1000 /	366 366 366 366	JB J
20123345 20123345	1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHYLENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE m-XYLENE p,o-XYLENE	ND 94 ND ND 640 970	36 36 73 36 36	
-	NOT DETECTED LIMIT	8077700		

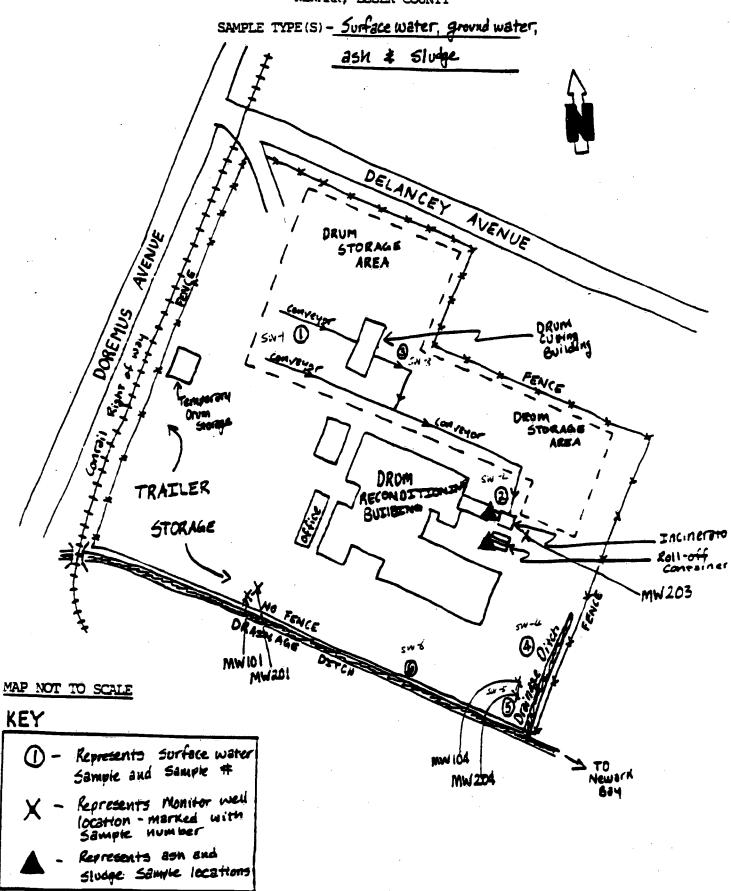
QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

# SITE LOCATION MAP

CENTRAL STEEL DRUM CO., BLOCK 5074 LOT 1

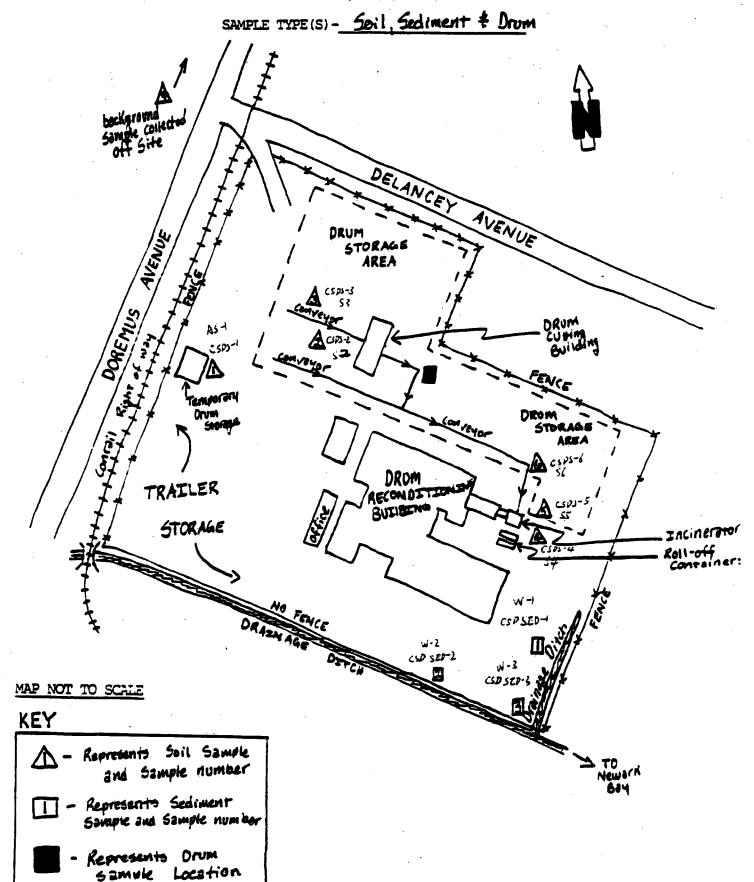
NEWARK, ESSEX COUNTY



# SITE LOCATION MAP

CENTRAL STEEL DRUM CO., BLOCK 5074 LOT 1

NEWARK, ESSEX COUNTY



rable L Central Steel Drug. Inc. Summary of Analytical Results

Sampling Point ID Sampling Date Matrix	MW-101 8/29/90 Water	HN104 8/29/90 Water	MN-201 8/29/90 Nater	MW-203 B/29/90 Water	HW204 8/29/90 Water	MN204 Dup Water	FB-MW 8/29/90 Water	FB-HW 8/29/90 Water	MM-TB 8/29/90 Water	MW-TB B/29/90 Water
VOLATILE ORGANIC COMPOUNDS (ppb) Methylene chloride Acetone Carbon Disulfide 1.1-Dichloroethene 1.1-Dichloroethene 1.2-Dichloroethene (Total) 2-Butangne 1.1.1-Trichloroethane Trichloroethene Benzene 4-Methyl-2-Pentanone Tetrachloroethene Toluene Chloroenee Ethyl benzene Styrene	HD 6.0 J 6.0 ND ND ND ND ND ND ND ND	REPOSE NO PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA PORTO DE LA COMPANSA	HO J 5.00 NRD NRD NRD NRD NRD NRD NRD NRD NRD NRD	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ME MD MD MB MB MD MD MD MD MD MD MD MD	16.0 B ND ND ND ND ND ND ND ND ND ND	22.0 AD ND ND ND ND ND ND ND ND ND ND ND ND	8.0 B ND ND ND ND ND ND ND ND ND ND ND ND ND	11.0 MD MD MD MD MD MD MD MD MD MD MD
Tylene (Total) Total Volatile Organics	ND 14.0	NO ND	ND 11.0	DN Cn	MD MD	ND No	ND ND	ND 22.0	ND ND	ND 11.0
Tentatively Identified Compounds	ÑĎ	iif	ND	. NO	ND	ND	ND	HD HD	ND ND	45.0 (1)
ACID EXTRACTABLES & BASE NEUTRALS ( Bis(Z-ethylhexyl)phthalate Total AE + BN Tentatively Identified Compounds	ppb) 4.7 J 4.7 J 111.0 (4)	5,3 J 5,3 J ND	3.8 J 3.8 J 20.0 (1)	ND ND ND	ND ND 91.0 (2)	NA NA NA	3.2 J 3.2 J 26.0 (1)	NA NA	NA NA	NA NA
ORGANOCHLORINE PESTICIDES (ppb)	ND	ND	ķū	ND	KD	NA	ND	NA	NA .	NA
Polychlorinated Liphenyl (ppb)	NG	lib	ИD	ND	ND	NA	HD	HA	NA	NA
PRIDRITY FOLLUTANT METALs (ppt) Arsenic Cadaiua Chromiua Copper Lead Mercury Nickel Seleniua Silver Thalliua Linc WET CHEMIGALs (ppb)	30.00 ND 17.00 J 89.00 148.00 ND ND HD 11.00 J ND 220.00	NL ND ND ND ND SS ND ND 6.00 J ND 71.06	20.00 ND 76.00 90.00 101.00 .38 J 60.00 ND ND ND	ND ND 43.00 J 307.00 ND ND ND ND ND	2.04 J 1.27.00 ND ND .57 J HD 14.00 J 1070.00	ND ND ND ND .83 J ND ND 4.20 J 926.00	HD MD MD MD MD MD MD MD	HA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	MA NA NA NA NA NA NA
Cyanide Phenois	38 130	ND 270	ND 250	ND 70	ND ND	NA NA	ND: ND	NA NA	NA NA	NA NA
TOTAL PETROLEUM HYDROCARBONS (ppb)	ND	, ND	ан	ND	ND	NA	ND	NA	NA	MA

	1. 1.	*					*****		_			
VOLATILE ORGANIC COMPOUNDS (ppb)		<u>-</u> -	<del></del>							Mush.	**iE.	****
Methylene chloride	NL	ND	13.0	ND	ND	NĎ	410					<del></del>
Acetone	42.0	ND	990.0 E	ND	1200.0 E	550.0 E	ND 1200.0 E	NÞ	ND	MA	NA	ND
Carbon Disulfide	2,0 3	MD	MO	ŇĎ	ND	AD L	9.0	ND ND	ND	MA	NA	240.0 E
1,1-Dichloroethene	7.0	ND	MD	ÄÄ	ND	MD	ND	NG NG	ND	MA	NA	15.0
1,1-Dichtoroethane	65.0	NS	ND	ND	.5 1	ND	٤.٥	MD CM	ND	NA	MA	NĎ.
1.2-Dichloroethene (Total)	. ND	ND	MD	ND	14.0	14.0	MD	ND	ND ND	NA	NA	MD
2-Butanone	13.0	, NĐ	440.0 E	NÜ	41.0	28.6	490.0 E	ND	15.0	NA	· NA	MD
1,1,1-Trichloroethane	270.0 E	280.0	54.0	ND	ND	ND	6.0	ÑĎ	ND	NA NA	MA NA	210,0 E
Trichloroethene Benzene	ND	ND	15.0	ND	ND CA	ND	4.0 J	ÄĎ	ND	.NA	nn Ak	ND
4-Methyl-2-Pentanone	ND	MD	3.0 J	· ND	MD	HD	.9 J	· ND	· MD	MA	NA	ND ND
Tetrachloropthene	26.0 HD	ND ND	170.0	ND	12.0	5.0 J	70.0	ND	3.0 1	NA	NA	19.0
loluene	170.0	MD	4.0 J 1400.0 E	ND.	, NĎ	ND	.9 1	ND	KD	MA	ÄÄ	MD
Chlorobenzene	ND	NS	1400.0 E	1566.0 ND	41.0	19.0	460.0 E	470.0	7.0	NA	MA	130.0
Ethyl benzene	91.0	NĎ	100.0	NG	.5 J 15.0	AD On	ND	ND	HD	NA	NA -	MD
Styrene	ND .	ND	ND	· ÑĎ	1.0 J	KĎ	40.0 30.0	29.0	13.0	NA	NA	17.0
Tylene (Total)	510.0 E1	310.0 1		65i.0 a		ND	180.0 1	ND	, KD	NA	MA	6.0
							Ina.a v	160.0 1	130.0	NA	NA	83.0 J
lotal Volatile Organics	1196.0	590.0	3709.0	2150.0	1325.0	616.v	2496.8	£59.ú	168.6	NA	NA	224 4
Tentatively Identified Compounds	# 125.2 (6)	ND	1827.9 (15)	ND:	HD	488.9 (3)		NĎ	38.0 (2)	NA	NA NA	720.0 310.0 (5)
ACID EXTRACTABLES & BASE NEUTRALS	lant t	•					• •		1-1	***	wil.	210.0 (3)
2-Hethylphenol		MA	Aif.	44.6	40.2		144					
4-Hethy Iphenal	ND ND	NA Na	NU ND	NÁ.	18.0	NA:	ND	29.0	ND	28.0	ND	ND
2.4-dimethylphenol	ND .	NA NA	ND ND	NA. NA	20.0	NA	63.0	ND	ND	450.0	1100.0	73.0
Pentachlorophenol	ND	NA:	ND ND	NA NA	10.0 ND	NA NA	4.0 J	3.4 1	MD	10.0	24,0	4.4 3
phenol	ND	NA	HĎ	NA	ND	NA NA	50.0	ND	ND	KD	_ NO	ND
Acenaphtnene	ÄĎ	NA	NG	NA	NE NE	NA NA	ND ND	ND ND	3.2 J	170.0	270.0	130.0
Acenaphthylene	ND	NA	ÄČ	NA	ND	ÄÄ	ND	- ND	04 04	MD MD	8.4 3	ND
Anthracene	ND	NA	L 2.3	NA	NĎ .	NA	2.2 j	ÑĎ	ND	15.0	5.2 J	ND
Benzo(a)anthracene	ND	NA	HD	NA	MD	NA	ND	ÑĎ	ND .	28.0	14.0 22.0	ND ND
Benzo(a)pyrene	ND AD	NA	ND	NA	ND	NA	ND	ND	ND	NĎ	46.0	ND D
Benzo(b):fluoranthene Benzo(ghi)perylene	ND ND	NA NA	ND	NA	MD	NA	MD	ND	. NĎ	36.0	MD	ÑĎ
Bis(2-ethylhexyl)phthalate	820.0 E	na Na	ND 530.0	MA	, ND	NA	ND	NB	ND	16.0	ÑĎ	MD
Butyl benzyl phthalate	UN E	NA NA	210.0	NA NA	37.0	NA	260.0	28v.O	20.0	2000.0	3000.0	41.0
Chrysene	ÑĎ	NA	8.2	NA NA	an Ch	NA RA	45.0	8.4 J	HĐ	100.0	48.0	6.0 1
1,2-Dichlorobenzene	ND	NA	NĎ	KA	ND ND	NA NA	ND ND	ND	MO	47.0	33.0	ND
Diethyl phthalate	NĎ	NA	ND	NA	4,9 j	NA NA	ND ND	MD	MD	29.0	22.0	KD
Dimethyl phthalate	ND -	NA	ND	NA	ÄĎ	ÑÃ	ND	ND MD	. ND ND	"MĎ	6.4 1	MD
Di-n-buty) phthalate	ND	NA	260.0	NA	ND	NA	19.0	42.0	2.9 J	5.0 J 38.0	ND	· MO
Di-n-octyl ohthalate	ND	NA	ND	NA	ND	NA	HD	NĎ	ND ND	110.6	34.0 180.0	ND ND
1,2-Diphenylhydrazine Fluoranthene	ŅĎ	NA	ND .	NA	MD	NA	ND ND	ÑĎ	ÄĎ	ND	IBU.U	MD MD
Fluarene	3.3 J dh	NA NA	ND	NA.	, ND	NA		5.7 J	ÑĎ	57.0	51.0	ND
Indent(1,2,3-c,d)pyrene	ND	NA NA	6.0 J ND	NÁ	, ND	MA	ND	ND	NĎ	12.0	13.0	MĎ
Isophorone	NĎ	NA	470.0 E	NA NA	, ND	MA	_ ND	ND	ND	19.0	NĎ	'nĎ
Nachthalene	ÑĎ	NA	37.0	NA NA	21.0 ND	:NA NA	89.0	ND	ND	130.0	78.0	27.0
N-Witrosodimethylamine	ÄĎ	NA	23.0	NA	KO	WA NA	12.0	ND	ND	71.0	45.0	5.2 J
Phenanthrene	NĎ	MA	60.0	NA	ND CA	NA NA	6.2 J 9.4 J	, NĎ	ND	22.0	ND	ND
fyrene	5. <u>3</u> J	NA	ND	ÑÁ	ND	NA	ND	11.0 8.2 J	ND ND	64.0	53.0	NO
1,2,4-Trichlorobenzene	ND	Na	NB	AM	ND	NA	ND	ND ND	ND CM	70.0	55.0	ND
Total AE + BN						••••	,,,	nu	MU	35.0	34.0	MD
	828.6	NA	1610.4	NA	110.9	NA	544.8	387.7	26.1	4570.0	5162.0	201 4
Tentatively Identified Compounds	8119.0 (24)	NA	14021.0 (21)	NA	3211.0 (21)	NA	5213.0 (25)	4204.0 (25)	1337.0 (9)		11390.0 (25)	286.6 2617.0 (25)
DAGANOCHLORINE PESTICIDES (ppb)	ND	NA	MD	41A		41-		,	• • •	(40)	****** (T3)	2617.0 (25)
'	ΝŲ	Rn.	NU	NA	ND	NA	. ND	ŇA	ND	MA	NA	MD
Polychlorinated biphenyl (ppb)												•••
PCB-1254	40	NA	11	NA	4	NÁ		WA				
BDIGOTTY DOLLUTANT			٠.	1473	7	RA	5	NA	2	NA	NA	MD
PRIORITY POLLUTANT METALS AND NET	CHEMICALS (ppm)											
Arsenic	222.00	NA	415.00	ŊA	103.00	NA	90.00	NA	MD	MA	***	***
Cadaius	17.00	NA	12.00	NA	23.00	NA	4.60 J	NA	7.20 J	na Na	MA	MD .
Chrosius	339.00 3420.00	NA NA	163.00	MA	230.00	NA	44.00	HA	56.00	NA	NA Na	4.00 J 11.00
Copper	2990.00	NR NA	245.00	MA	1150.00	MA	157.00	NA	463.00	NA	MA	73.00
Lead	31200.00	NA AA	676.00 3690.00	na Na	4630.00	NA	354.00	NÄ	1020.00	NA	AN AN	74.00
Hercury	18.00	NA	1.10 J	na Na	19000.00	NA	2330.00	NA	7630.00	MA	NÃ	383.00
Nictel	275.00	NA	195.00	NA NA	1.50 J 355.00	na Na	.51 J	MA	ND	NA NA	NA	1.00 J
Selenius	7.40 J	NA	3.60 J	NA	353.00 ND	NA NA	151.00	MA	124.00	NA	· NA ·	· ND
Silver	ND	NA	17.00 J	ÑÃ	NC	na Na	3.30 J 12.00 J	NA NA	ND ND	NA	MA	2.50 J
Zinc	13000.00	NA	5040.00		11800.00	NA	1420.00	na Na	Anua On	NA	NA	20.00 J
Evanide	MB	414				1.		ù si	40v0.00	NA	NĄ	ND
Cyanide Phenols	ND 156	NA NA	HD 20 <b>00</b>	NA NA	60 80	NA NA	90	NA	97	MA	AM	WA.
	1 30	MA	2000	NA	80	NA.	90 18 <b>00</b>	NA NA	97 840	NA NA	na Na	ND 100
											ent .	100

Sampling Point ID	C505- i	2505-2	C\$L5-3	CS&S-4	CS05-5	CS05-6	CSDS-7	CSDSEDI	202000	
Sampling Depth Sampling Date	8/29/90	B/29/90	8/29/90	8/29/90	8/29/90	8/29/90	8/29/96	8/29/90	CSDSED2	CSDSED3
Matrix	Sail	Soil	Soil	Sail	Soil	Soil	Soil	Misc.	0/29/90 Misc.	8/29/90 Misc.
VOLATILE ORGANIC COMPOUNDS (ppb) Chloroethane Methylene chloride Acetone	MD MD ND	ND 55G J ND	17 27 40	ND 190 J ND	NG NB ND	ND ND 22600	ND ND ND	ND ND 3500	MD MD	ND ND
Gaston Chill bedane 1,2-Dichtlebertane 1,1,1-Trichtoroethane Trichtoroethene	MD MD MD MD	ND ND ND	MD MD	NG NG NG	ND 27466 34006 12000	ND ND ND ND	ND ND ND	MD MD MD MD	ND NB NL ND ND	ND ND ND 1600
Benzene Tetrachloroethene	NG ND	OM OM OM	ND ND KD	NG ND ND	93000 ND	ND ND,	MD ON ON	EN ON	ND ND	ND 300
Toluene Ethyl, benzene	ND ND	2000 <b>0</b> 1000	12	4500 710	22 <b>0000</b> 570000 66000	ND 310000 E 18000	ND	9200 -	ND 1700	1000 1000
Styrene Rylene (Total)	ND NG	ND 9000	93 93	NĎ 410G	NG 4400GG	ND 140000	ND ND ND	3400 ND 2300 E	3600 ND 27000	240 ND
Total Volatile Organics Tentatively Identified Compounds	HD 513 (14)	36550 370 <b>0</b> (3)	211 318 (6)	930a 970 (2)	1876000 49000 (1)	490000 4200 (1)	ND 762 (7	18400	32300 ND	4900 8133 1784 (15)
ACID EXTRACTABLES & BASE REUTRALS ( Phenol	ppt) Nb	ND	NÚ	NL	NG	Atrific				()
Anthracene Benzo(a)anthracene	ND ND	, ND	ND ND	ND ND	ND ND	46000 ND ND	ND ND ND	ND 2700 J	ND ND	ND ND
Benzo(a)pyrene Benzo(b)fluoranthene	ND ND	ND ND	ND ND	MD ND	ND HD	ND ND	ND ND	6000 J ND 5900 J	KD MD ND	ND 3500 1
Bis(2-ethylhenyl)phthalate Benzyl alcohol	19000 MD	620000 E ND	ND ND	IBOUDO E ND	210000 E ND	1600000 E ND	ND ND	260000 E ND	67000 ND	3200 J 120000 ND
Butyl benzyl phthalate Chrysene Diethyl phthalate	ND ND ND	200000 E ND	ND ND	23000 .HD	ND NO	900041 QN	ND ND	ND 4800 J	ND ND	ND ND
Di-n-butyl pothalate Di-n-octyl pothalate	3500 J ND	ND 88000 74000	ND ND ND	ND 16000 15000	PL 71000 E	17000C	ND ND	ND 6200-	MG ND	ND Ad
Fluoranthene Fluorene	ND ND	3200 J ND	ND NC	3300 T	24006 2500 J NB	50000 37000 ND	ND ND	33000 12000	ND 4300 J	6400 J 3000 J
lsophorone 2-Methy Inaphthalene	ND ND	GH dn	9300 ND	ND ND	ND ND	ND 18000	ND ND ND	3600 J MD 5600 J	4100 J	ND ND
Naphthalene Phananthrene	ND ND	2500 J 8900	NB Gúð J	ND ND	3700 J 2400 J	88000 150000	ND ND	8700 18060	ND 1100 J 3100 J	ON 100 2900 J
fyrene 1,2,4-Trachlorobenzene	ND ND	4700 98000	NG NG	5000 ND	4100 ND	24000 ND	AND ON	11000 ND	4400 J ND	3400 J ND
Total AEs & BNs Tentatively Identified Compounds	22500 8500 (3)	1677300 952300 (24)	10100 388600 (24)	242300 73100 (14)	317760 783200 (25)	2403000 753000 (26)	ND 4700 (1)	37990ú	84000 1205500 (23)	143400 194500 (25)
ORBANOCHLORINE PESTICIDES (ppb)	NO	ND	NÚ	HD	NU	ND	ND	ND	ND	MD
Polychlorinated biphenyl (ppb) PCB-1254	NĐ	NĐ	ND	ND	CH	НÞ	MD	4 3 Au	498.00	
PRIORITY POLLUTANT METALS AND WET CH	EMICALS (pps)		***		ns	NJ.	NU	12000	12000	20000
Aluminum Antimony Arsenic	10900 ND	4140 152	6980 233	31000 ND	#D #D	4740 NB	1510 #D	14100 75.5	9800 38	13800 22.2
Barius Baryllius	76 279	7.9 1750	10.3 1540	8.1 1706	636	7.2 944	ND 44.6	10.1 3170	15 2160	40.5 1360
Cadalus Calcius	1.9 9.7 17200	ห <b>D</b> 148 10200	ND 57.4	NB 46.9	ND 23.2	ND 41.6	ND D	ND 93.6	NO 42.8	56.9
Chronium Cobalt	201 21.9	2470 36.7	7210 2940 49.3	21000 895 73.2	19700 249 33.5	17900 752	4060 19.8	29400 1170	21600 863	5890 747
Copper Tron	324	673 65600	614	(716 169000	350 9670¢	47.2 706 90000	ND 28.4 4810	98.5 1540	234 743 102600	36 773 41100
Lead Magnesius	35600 1720 6940	8330 2130	57500 13100 2420	6650 55,40	2040 8559	4190 3000	73.2 ND	80700 9080 5950	7630	2100
Hanganese Hercury Mickel	186 2.3	40 <del>9</del> 6.4	2420 623 5.6	1150 7.4	665 1.3	751 2.8	90.7	802 6.5	5290 B0B	5000 320 13
Potassius Selenius	56.3 NB	105 ND	NO NO	174 ND	62.1 ND	126 ND	19.5 ND	.154 ND	801 <b>D</b>	90.2 1410
Silver Sodius	ND ND ND	3.7 7 ND	4,7 3.8	3.5 10.2	2.4 3.4	2.1 18	ND ND	6.4 13.6	1.3 4.6	5.1 4.1
Vanadáu <b>n</b> Zinc	68.4 638	28.5 5210	ND 61 2640	1160 51.7 3030	ND 41.6	ND 29.9	ND ND	1210 84.7	ND 91.7	NG 92.4
Cyanade	5.6	ND	NO	5.6	· 547 .7	2250 3.5	ND 108	4760 3.5	2810	1750
								ئ ب <sub>ا</sub> ن	10.4	7.1

( Cuntanued )							
Sampling Point 10 Sampling Depth	CSOSED3-OL	CSDNI	CSD#2	CSD#3	CSDUSP	CSDFBSS	TATPBLANK
Sampling Date Matrix	8/29/90 Misc.	8/29/90 Misc.	8/29/90 Misc.	8/29/90 Misc.	8/29/90	8/29/90	8/29/90
VOLATILE ORGANIC COMPOUNDS (PPD)				4131.1	Misc.	Water	Water
Chloroethane	ND	ND	ND	ND	ИĎ	NO	MD
Methylene chioride Acetone	ND	MD	NB	ND	ÑÕ	2 JB	2 JB
Carbon Disultide	110 1	ND	ND	ND	NĎ	4200-E	มอ์ วีย
1.1-Dichloroethano	ND ND	·ND	MD	ND	KD	ND _	ÑĎ
1.2 Dichloroethene (lotal)	ND	ND ND	ÁÍÐ Má	ND	MD	NĎ	MD
1,1,1-Irithiornething	ÑĎ	HD	ND ND	MB ND	ND ND	MD	ND
Irichlaroetnene	ÄĎ	ND	#D	ND ND	2000 <b>00</b> ND	ND	ND
Benzene	170	ND	ÑÕ .	ÄĎ	ÑS	ND.	ND ND
Tetrachloroethene Toluene	ND.	ND	ND	HĎ	ÄĎ	ND	ND ND
Ethyl benzene	480	ND	7790	40000 <b>0</b>	876000 E	ŧiĎ	ÑĎ
Styrene	'570 ND	· ND	. NO	ND	100000	ND	ND
Tylene (Total)	3300	ND ND	, ND , ND	ND AND	15000 520000	HD HD	MD MD
lotal Volatile Organics Tentatively Identified Compounds	4830 ND	ND	7700	4686C0	1705000	4200 E	ND
		ND	B02000 (2)	11/90000 (3)	54000 (2)	NO	MO
CID EXTRACTABLES & BASE NEUTRALS (							
Anthracene	HA	NO	HD.	ИD	·NA	ND	·NA
Benzo(a)anthracene	HA	MD MD	ND	ND	HÀ	ĞÑ	NA
Benzo(a) pyrene	NA NA	ND ND	HD.	ND	KA	110	KA
Benzoibi fluoranthene	NA	ND	MD MD	MD	HA	ND	HA
Dis(2-ethylhexyl)phthalate	NA	ÑĎ	HD.	HD Cin	NA	HD	NA
Beushi sicopol	NA	8400v00	2000000	ND OK	NA MA	ND ND	NA
Butyl benzyl phthalate	, NA	ND	AB	ÑĎ	NA NA	ND	NA NA
Chrysene Diethyl phthalate	NA	ND	ND	ND	NA	ND	NA NA
Di-n-butyi phthalate	NA	ND	2600000	ÄÐ	NA	23	NA
Di-n-octyl phthalate	NA NA	ND	110	ND	NA	ÑĎ	NA
Fluoranthene	lia.	ND ND	NO.	ND	NA	HD	NA
Fluorene	HA	ND ND	NO ND	ND	HA	ND	NA
Isophorone	NA	ND.	ri0	ND ND	NA	ND	HA
2-Kethy Inaphthalene	NA .	Ä	ĞN	ND GN	HA NA	ND	IIA
Maphthalene	NA:	ND	ÄĎ	ND	NA NA	HD : ND	NA
Phenantarene Bassas	NA	HD	ÄĎ	ÜĎ	NA	ON ON	NA NA
Pyrene 1,2,4-Trichlorobenzene	HA	ИD	ND	ĦĎ	NA	ND Qu	HA
	NA	ND	ND	ND	NA	ЙĎ	NA
otal AEs & BNs	:iA	8400000	4600000	ND	àιΑ		
intatively Identified Compounds#	NA		12398000 (33)	20296000 [5]	na Na	23 45 <b>4</b> (7)	HA NA
SANOCHLORINE PESTICIDES (ppb)	NA	NA	NA	НА	NA	ND	NA
ychlorinäted biphenyl (ppb) CB-1254			•				
	NA:	ŅA	:18	NA	HA	.ND	tia .
ÍORITÝ POLLUTANT METALS AND WET CH Munique	EMICALS Ippa			•			
Atlachy	NA NA	NA MA	IIA	lia:	NA	Nú	NA
rsenic	NA NA	NA NA	NA NA	NA	NA	ND	. NA
ariue	NA	NA	NA NA	na Na	HA	ND	NA
ryllius	NA	ÄÄ	lia	AH AH	na Na	ND.	NA
idoius Ilcius	NA	NA	NA	NA	NA NA	ND ND	NA NA
prostus	HA	NA	NA	NA	HA	ND	NA NA
balt	NA NA	MA	NA	KA	NA	ND	AH
pper	HA NA	na Na	NA NA	NA	NA	ND	NA
on	NA	NA	na Na	NA	NA	.0926	NA NA
ead .	NA	NA	NA	HA NA	NA NA	ND ND	ŅĀ
IGNESIUB	NA	NA	HA	NA.	na Na	ND ND	NA
inganese Proury	NA	NA	NA	NA	NA NA	ND ND	NA NA
ckel	NA Na	NA	NA	NA	NA	ND	NA NA
tassium	NA Ka	NA NA	KA	NA	HA	ÄĎ	NA
lenium .	NA	NA NA	NA NA	HA	HA	ND	ÑÃ
lver	NA	NA NA	NA NA	NA	NA	. ND	NA
dies	NA	NA	. NA	NA NA	NA	MD .	NA
nadium nc	NA NA	NA	.NA	HA"	NA NA	ND ND	MA: NA
		NA	NA	NA	NA	. 128	NA
201de	HA	NA	NA:	HA	HA	no.	144
			<del></del>		ни	GH	HA

# ( Continues )

Sampling Point ID Sampling Depth Sampling Date	A51	<b>S2</b>	S.	S4	\$5	- S6	57	u1	W2	43	MSP
natrix	8/29/90 Soi 1	8/29/96 Suil	8/27/90 Sail	8/29/90 Soil	8/29/90 Soil	8/29/90 Soil	8/29/90 Soil	8/29/90 Nisc.	8/29/90 Misc.	8/29/90	8/29/90
EP-TOXICITY METALS (ppa) Barium Cadalum Chromium Lead Mercury Silver	.32 .0131 MG .0397 MD MG	.215 .0056 .0171 .135 .HD	.712 .0408 .0383 .35 .60	.78 .0292 ND .0224 ND ND	824. DN DN JAEU. DN	.214 .0308 ND .0473 ND	.1 KD ND .0067 ND	.0262 ND ND .0039 .0003	.0226 MD MD MD MD MD MD	.0262 MD MD .006 MD MD	.8906 .0585 .0798 .386 ND
NDTES: NA - Not Analyzed ND - Not Detected ppb- Farts per Billion ppm- Parts per Million J - Less than method dete B - Found in Laboratory B () - Number of detected pe E - Estimated value(s) # - Estimated value(s)	ttani	but greater t	han zero							<b>4</b> 0	ND

#### ATTACHMENT 5

# JMS SAMPLING PROCEDURES

#### SURFACE SAMPLE COLLECTION PROCEDURE

Soil borings were made and samples collected from all sample locations in the following manner:

#### Equipment:

- o Two, 8-inch length stainless steel hand trowels;
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture (2 gallons);
- o Two, plastic spray applicators;
- Wide mouth, amber glass jars and septum vials with teflon lined screw caps;
- o Sample cooler/ice packs;

- The surface area was cleared of debris by hand and a shallow hole dug with a hand trowel;
- The hand trowel was placed in the hole and advanced to the desired sample depth and removed. Upon removal, the trowel was scrubbed clean using an alconox and distilled water mixture. After scrubbing, the trowel was rinsed with the alconox/water mixture and then rinsed again with distilled water;
- The soil materials encountered during the boring was logged by the geologist as they are brought to the surface;
- 4) The soil sample for laboratory analyses was placed in a wide-mouth amber jar or a septum vial with a teflon lined screw cap. A sample label was prepared showing the sample number, depth of collection, date, and analysis to be conducted. A Chain-of-Custody control form was also prepared.
- The soil sample bottles were placed in a storage cooler at 4°C (wet ice) for transfer to the J M Sorge, Inc. offices in Somerville, New Jersey. (The samples were refrigerated until transfer to the laboratory for analysis).

#### HAND AUGER BORING AND SAMPLE COLLECTION

Soil borings were made and samples collected from all hand auger bore holes in the following manner:

# Equipment:

- O Two, 4-inch O.D. stainless steel hand augers (AMS manufacture);
- o Two, 8-inch length, stainless steel hand trowels;
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture (2 gallons);
- o Two, plastic spray applicators;
- Wide mouth, amber glass jars and septum vials with teflon-lined screw caps;
- o Sample cooler/ice packs;
- o Bentonite pellets.

- The surface area was cleared of debris by hand and a shallow hole (about 6 inches deep) was dug with a hand trowel;
- The auger was placed in the hole and advanced to the desired sample depth and removed. Upon removal, the auger was scrubbed clean using an alconox and distilled water mixture. After scrubbing, the auger was rinsed with the alconox/water mixture and then rinsed again with distilled water.
- 3) The soil materials encountered during the boring were logged by the geologist as they were brought to the surface.
- 4) A clean auger (the second) was used to collect the soil from the sample zone. The auger was advanced one foot and brought to the surface.

- 5) The soil was removed from the auger. Only the interior portion (3 to 4 inches) of the soil was collected for later analysis. The top and bottom of the sample were discarded. A portion of the sample was set aside for field analysis.
- The soil sample for laboratory analyses was placed in a wide-mouth amber jar or septum vials with a teflon-lined screw cap. A sample label was prepared showing the sample number, depth of collection, date, and analysis to be conducted. A Chain-Of-Custody control form was prepared.
- 7) The soil sample bottles were placed in a storage cooler at 4°C (wet ice) for transfer to the J M Sorge, Inc. offices in Somerville, New Jersey. (The samples were refrigerated until transfer to the laboratory for analysis).
- 8) The auger used to collect the sample for laboratory analysis was decontaminated using the procedure detailed in Item 2 above.
- 9) After the sample was collected, the cleaned, first auger was used to advance the bore hole to the next sample horizon. The sampling process described above was then repeated.
- 10) At the completion of the boring, the bore hole was backfilled.

#### FIELD PHOTO-IONIZATION DETECTOR (PID) ANALYSIS

The following procedure will be used to establish "field estimates" of the concentration of volatile organic vapors in soil samples. It is noted here that the determinations made in the field are not considered valid for determining contamination extent and are not offered as concise analytical data. The use of the Hnu is standard on J M Sorge, Inc. projects involving organic compounds and will be useful in screening samples for later laboratory analysis.

#### Equipment:

- O Hnu Systems, Inc. photoionization detector, Model PI 101 with 11.7-eV probe;
- o Wrist watch;
- o Thermometer (C-scale);
- o Wide-mouth glass jars with teflon-lined screw caps (1 per sample).

- Start up the Hnu meter according to standard operating procedures and calibrate apparatus as per instructions;
- 2) Record ambient air temperature.
- Place probe into the <u>empty</u> glass jar and record any levels of organics in the jar. If readings indicate <u>ANY</u> organic level, discard bottle.
- 4) Place soil sample (approximately 20 grams) into the glass jar to the one centimeter level, replace cover and agitate vigorously for 30 seconds.
- Place jar on flat surface and loosen screw cap. Lift cap enough to insert probe into jar to a depth about 1 centimeter above sample material on bottom, (do not allow the probe to come in contact with the soil), record level registered on the indicator.
- 6) Remove probe, empty contents from the jar, and discard the jar. Repeat procedures 2-6.
- 7) If the probe should come in contact with the soil, remove probe tip as per standard procedures, rinse with distilled water and hexane. Allow to air dry and then re-assemble. Make note of sample in which the contact occurred and mark subsequent samples analyzed there after.

#### SECTION 3

#### CALIBRATION

#### 3.1 INTRODUCTION

The PI 101 Analyzer is designed for trace gas analysis in ambient air and is calibrated at HNU with certified standards of benzene, vinyl chloride and isobutylene. Other optional calibrations are available (e.g., ammonia, ethylene oxide, H2S, etc.). Calibration data is given in the data sheet. If a special calibration has been done, the data is given in the Application Data Sheet, which notes the sample source, type of calibration (see Section 8, Appendix), and other pertinent information.

Good instrumentation practice calls for calibration on the species to be measured in the concentration range to be used. This procedure assures the operator that the analyzer is operating properly and will generate reliable data.

Some general points to consider when calibrating the PI 101 are that the analyzer is designed for operation at ambient conditions and therefore the gas standards used for calibration should be delivered to the analyzer at ambient temperatures and pressure and at the proper flow rates.

#### WARNING:

The PI 101 is a non-destructive analyzer; calibrations using toxic or hazardous gases must be done in a hood.

The frequency of calibration should be dictated by the usage of the analyzer and the toxicity of the species measured. If the analyzer has been serviced or repaired, calibration should be done to verify operation and performance. It is recommended that calibration be checked frequently at first (daily or every other day) and then regularly based on the confidence level developed.

The normal meter scaleplate is 0 to 20. If the scaleplate is different, refer to the Application Data Sheet. If there are questions, consult the HNU representative before proceeding with calibration check.

An accurate and reliable method of calibration check is to use an analyzed gas cylinder in a test setup as shown in Figure 3-1 and described below. Additional material on calibration is given in Section 8, Appendix.

#### 3.2 ANALYŽED GAS CYLINDER

a. Concentration - The calibration gas cylinder is to contain the species of interest made up in an air matrix at or near the concentration to be analyzed. If the component is unstable in air, another matrix is to be used. The final calibration mixture should be similar to the sample the PI 101 will analyze. If the expected concentration is not known then a concentration should be chosen that will cause a scale displacement of 50 to 80% on the X10 range. Calibration on X10 range will provide accurate values on the X1 range as well.

SECTION 3.2, ANALYZED GAS CYLINDER cont.

For use on the 0-2000 range, a two-standard calibration is preferred: one at 70 to 85% of the linear range and the other at 25 to 35% of the linear range. With the linear range of approximately 600 ppm for most compounds these points would lie between 420 to 510 ppm and 150 to 210 ppm, respectively.

b. Stability - The calibration gas must be stable within the cylinder during the period of use. If the calibration is required in the field, then use of a small cylinder is recommended. In addition, the choice of cylinder material in contact with the gas must be considered (steel, aluminum or teflon). If there are any questions, the operator should request stability and usage information from the gas supplier.

# WARNING

Extreme care must be taken in the handling of gas cylinders. Contents are under high pressure. In some cases, the contents may be hazardous. Many gas suppliers will provide data sheets for the mixtures upon request.

c. Delivery - The cylinder containing the calibration mixture must be connected to a proper regulator.

# WARNING

Never open the valve on a gas cylinder container without a regulator attached.

Leak test all tank/regulator connections as well as the main cylinder valve to prevent toxic or hazardous materials from leaking into the work area. Care must be taken that the materials of construction of the regulator will not interact with the calibration gas.

One method of sampling the calibration gas is illustrated in Figure 3-1. Connect the cylinder to one leg of the tee, a flow meter to the opposite leg, and the probe to the third leg. The flow meter does not require a valve. If there is a valve, it must be left wide open. the flowmeter is only to indicate excess flow. Adjust the flow from the regulator such that only a little excess flow is registered at the flowmeter.

# SECTION 3.2. ANALYZED GAS CYLINDER cont.

This insures that the PI 101 sees the calibration gas at atmospheric pressure and ambient temperature.

- d. Usage Generally, a gas cylinder should not be used below 200-300 psi as pressure effects could cause concentration variations. The cylinder should not be used past the recommended age of the contents as indicated by the manufacturer. In case of difficulty, verify the contents and concentration of the gas cylinder.
- e. Alternate means of calibration are possible. For more information, contact the HNU Service Department.

#### 3.3 PROBE

- a. Identify the probe by the lamp label. If a question exists, disassemble the probe and inspect the lamp. The energy of the lamp is etched into the glass envelope.
- b. Connect the probe to the readout assembly, making sure the red interlock switch is depressed by the ring on the connector.
- c. Set the SPAN pot to the proper value for the probe being calibrated. Refer to the calibration memo accompanying the probe.
- d. Check the Ionization Potential (IP) of the calibration gas to be used. The IP of the calibration gas must be at or below the IP of the lamp.
- e. Proceed with the calibration as described in Section 3.4. Check the calibration memo for specific data. If any questions develop, call the HNU representative.
- f. NOTE: The 11.7eV lamp has a special cleaning compound. Do not use water or any other cleaning compound with the 11.7 eV lamp. Do not interchange ion chambers, amplifier boards or lamps between probes. (See Section 5.2).

#### 3.4 PROCEDURE

a. Battery check - Turn the function switch to BATT. The needle should be in the green region. If not, recharge the battery.

### SECTION 3.4, PROCEDURE cont.

- b. Zero set Turn the function switch to STANDBY.

  In this position the lamp is OFF and no signal is generated. Set the zero point with the ZERO set control. The zero can also be set with the function switch on the XI position and using a "Hydrocarbon-free" air. In this case "negative" readings are possible if the analyzer measures a cleaner sample when in service.
- c. 0-20 or 0-200 range For calibrating on the 0-20 or 0-200 range only one gas standard is required. Turn the function switch to the range position and note the meter reading. Adjust the SPAN control setting as required to read the ppm concentration of the standard. Recheck the zero setting (step b.). If readjustment is needed, repeat step c. This gives a two-point calibration; zero and the gas standard point. Additional calibration points can be generated by dilution of the standard with zero air if desired (see Section 8).
  - d. 0-2000 range For calibrating on the 0-2000 range, use of two standards is recommended as cited in Section 3.2a. First calibrate with the higher standard using the SPAN control for setting. Then calibrate with the lower standard using the ZERO adjustment. Repeat these several times to ensure that a good calibration is obtained. The analyzer will be appoximately linear to better than 600 ppm. (see Figure 3-2). If the analyzer is subsequently to be used on the 0-20 or 0-200 range, it must be recalibrated as described in steps b. and c. above.
  - e. Lamp cleaning If the span setting resulting from calibration is 0.0 or if calibration cannot be achieved, then the lamp must be cleaned (see Section 5.2).
  - f. Lamp replacement If the lamp output is too low or if the lamp has failed, it must be replaced (see Section 5.3).

#### 3.5 CALIBRATION CHECKING

Rapid calibration checking in the field can be accomplished by use of a small disposable cylinder containing isobutylene. Immediately after a calibration has been completed, a reading is taken on a special isobutylene standard. This provides a reference concentration measurement for later checking in the field. This can be done at any time with a portable cylinder containing this same special standard, using this reference reading as a check, and making adjustments to the analyzer if necessary. In effect, this is an indirect method of calibration, one maintaining the calibration to give direct readings for the original gas mixture, but using the portable isobutylene cylinder. Details are given in Section 8.2 of the Appendix.

#### TEST PIT EXCAVATION SAMPLE AND COLLECTION

Soil samples will be collected from test pit excavations as iescribed below. The sample collection and handling procedures used for the test pit samples are very similar to those described above for the auger borings.

#### <u>Eduloment:</u>

- Backhoe (typically, 0.5-yard bucket, 13-foot reach);
- Two, 4-inch 0.D. stainless steel hand augers;
- Two, 3-inch length, stainless steel hand trowels:
- Disposable fiber brush;
- Distilled water 1 gallons);
- a Acetone (1 dailan);
- Two plastic spray applicators;
- Wide-mouth, amper glass jars and septum vials with terlon-lined screw-caps;
- 3 Sample cooler::23 backs...

- Test pit areas will be dieared of surficial debris by the backhoe.
- The machine will be used to excavate to within 0.5-foot of the desired sample horizon and a level surface cleared. The soil samples will be collected using a hand auger is the bucket of the backhoe sannot be adequately decontaminated.
  - The soil auger will be placed in the hole and advanced to the desired sample depth and removed. Upon removal, the auger will be scrupbed clean using an alconox and distilled water mixture. After scrubbing, the auger will be rinsed with the alconox/water mixture and then rinsed again with distilled water. The auger will be rinsed with acetone to remove any residual contamination, air dried, then given a final rinse with distilled water.
  - The soil materials ancountered during the boring will se logged by a 1 % Sorge, Inc. geologist as they are prought to the jurface:

- 5) A clean auger (the second auger) will be used to collect the soil sample from the zone of interest. The auger will be advanced about six inches and the soil material brought to the surface.
- The soil will be removed from the auger. Only the interior portion (3 to 4 inches) of the soil will be collected for later analysis. The top and the bottom portions of the auger sample will be discarded. A portion of the sample will be set aside for field analysis.
- The soil sample for laboratory analysis will be placed in a wide-mouth amper par or a septum yial with a teflon lined screw sap. A sample label will be prepared showing the sample number, depth of sollection, date, and analysis to be conducted. A Chain-of-Gustody control form will also se prepared.
- The soil sample bottles will be placed in a storage cooler at 400 (wet ice) for transfer to the J M Borge, Inc. offices in Somerville, New Jersey.

# SPLIT SPOON SAMPLE COLLECTION PROCEDURE

Soil borings will be advanced using a truck mounted, hollow stem auger rig which utilizes a 140 pound drop hammer to drive split; spoons into the sediment. Soil samples will be collected by standard split spoons in the following manner:

#### Equipment:

- o Truck mounted hollow stem auger rig;
- o Two (2) stainless steel 2" diameter split spoon samplers
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture (2 gallons);
- o Acetone (1 gallon);
- o Two (2) plastic spray applicators;
- o Wide-mouth, amber glass jars and septum vials with teflon-lined screw caps;
- Sample cooler/ice packs;
- o Bentonité pellets.

- A truck-mounted, hollow stem auger rig will be used to advance the boring to a point above the desired sampling depth;
- 2) A clean, split spoon sampler will be driven two (2) feet into the material and then withdrawn according to ASTM D.1586 (two (2) split spoon samplers will be used in order to accommodate the continuous sampling effort and minimize equipment decontamination down time);
- A sample will be collected from the mid-portion of the split spoon, the lower and upper few inches of sample will be discarded. A portion of the sample will be set aside for field analysis by Hnu photoionization detector.
- Samples collected at the desired depths will be designated for chemical analysis -- these samples will be placed in wide-mouth, amber glass jars or septum vials with teflon-lined screw caps;

- After each sampling, the split spoons will be rinsed with distilled water and an alconox solution -- a brush will be used if necessary to remove soil that adhered to the split spoon -- and another potable water rinse will be made. A rinse will be made with Acetone, air dried, and the final rinse with distilled water. The split spoon will be allowed to air dry prior to being used to collect another sample;
- Once the samples are placed in the wide-mouth, amber glass jars or septum vials and sealed with Teflon-lined screw caps, they will be placed in a storage cooler maintained at 4°C for transfer to the J M Sorge, Inc. offices in Somerville, New Jersey, where they will be refrigerated until transfer to the laboratory. A standard company Chain-of-Custody form will be completed to record sample custody.
- 7) All boreholes are backfilled with the natural cuttings and bentonite to the surface and restored to near their original appearance.

#### GROUNDWATER SAMPLE COLLECTION PROCEDURES

Water samples will be collected from the monitoring wells in the following manner:

#### Equipment:

- centrifugal/submersible pump and inert suction/discharge tubing;
- o Three (3), 1 1/2-inch O.D., stainless steel bailers with stainless steel leaders;
- o Cotton rope;
- o Distilled water (2 gallons);
- o Acetone (1 gallon);
- o Two (2) plastic spray applicators;
- Small neck, amber glass jars with teflon-lined screw caps, and septum vials;
- o Sterilized surgical gloves (disposable); and,
- o Sample cooler/ice packs.

- A minimum of three (3) to five (5) well volumes will be evacuated from each well prior to sample collection using either a centrifugal or submersible pump outfitted with inert suction/discharge tubing. The pump intake will be carefully raised and lowered across the full screen length to ensure a thorough purging of the entire screened interval. Typically, the final well volume will be evacuated at a rate of one gallon per minute or less.
- 2) Groundwater samples will be collected using a stainless steel bailer with stainless steel leader that is attached to cotton rope. The stainless steel leader will be of sufficient length to eliminate contact of the cotton rope with the groundwater. Sterilized surgical gloves will be worn during the sampling procedures.

- The water samples will be poured into the sample containers with teflon-lined screw caps. Careful procedures will be used to ensure that no air remains in the septum vials. A sample label will be prepared showing the sample number, sample location, date, time, and analysis to be conducted. A Chain-of-Custody control form will also be prepared.
- 4) The sample bottles will be placed in a storage cooler at 4°C (wet ice) for transport to the laboratory. All standard Chain-of-Custody control procedures will be followed.
- 5) Between sample collections, the well purging equipment and bailer will be scrubbed clean using an alconox and distilled water mixture. After scrubbing, the equipment will be rinsed with the alconox/water mixture and then rinsed again with distilled water. Finally, the equipment will be rinsed with acetone to remove any residual material, and will then be air dried. A dedicated length of tubing and bailer will be used during the well purging and sampling at each location in order to minimize potential cross-contamination.
- 6) Once the samples are placed in the containers and sealed with teflon-lined screw caps, they will be placed in a storage cooler maintained at 4°C for transfer to the J M Sorge, Inc. offices, where they will be refrigerated until transfer to the laboratory.

#### WASTE CLASSIFICATION SOIL SAMPLING PROCEDURES

The following information details the Waste Classification Soil Sample Collection Procedures. These procedures represent methods utilized to ensure the validity of soil samples collected at the site.

The composite soil samples will be collected in the following manner:

#### Equipment:

- o Two, 4-inch O.D., stainless steel hand auger;
- o Two, stainless steel hand trowels;
- o 5-quart stainless steel mixing bowl;
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture (1 gallon);
- o . Acetone (1 gallen);
- o Plastic spray bottle applicators;
- Wide-mouth, amber glass jars with teflon-lined screw caps;
- o Sample cooler/ice packs

- 1) One (1) composite soil sample will be collected each 100 cubic yards of excavation spoils. Each composite sample will be made up of four (4) individual soil samples. The soil samples will be collected from different boring depths to attain the most accurate representation of the waste spoils.
- The auger will be advanced to the desired sampling depths, and the auger controls will be placed into a stainless steel mixing bowl. Following the collection of four (4) soil samples, the contents within the bowl will be thoroughly emptied on a bench-kote paper and divided into quarters. Only one quarter will be placed into a sampling jar.

- Jpon completion of the sampling for that particular drum, the auger will be scrubbed clean, using alconox and distilled water mixture. After scrubbing, the auger will be rinsed with a alconox/distilled water mixture and then rinsed again with distilled water. The auger will be rinsed with acetone to remove any residual materials, allowed to air dry, then given a final rinse of distilled water. The hand trowel and mixing bowl will also be decontaminated following the same procedures between sample collection.
- The soil sample for laboratory analyses will be placed into a wide-mouth amber jar with a teflon-lined screw cap. A sample label will be prepared showing the sample number, date, and analysis to be conducted. A Chain-of-Custody Control form will also be prepared.
- The soil sample bottles will be placed into a storage cooler at 4°C (ice packs) for transport to the J 1 Sorge, Inc. offices located in Somerville, NJ. The samples will be refrigerated until transferred to the laboratory for analysis.

#### TRUCK MOUNTED AUGER SAMPLING PROCEDURES

Soil borings were advanced using a truck mounted, solid stem auger rig. Soil samples were collected by standard hand auger techniques in the following manner:

#### Equipment:

- o Truck mounted sold stem auger rig:
- o Two, 8-inch length, stainless steel hand trowels;
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture (2 gallons);
- o Acetone (1 gallon);
- o Two (2) plastic spray applicators;
- o Wide-mouth, amber glass jars and septum vials with teflon-lined screw caps;
- o Sample cooler/ice packs;
- o Bentonite pellets.

- A truck-mounted, solid stem auger rig was used to advance the boring to a point above the desired sampling depth;
- The soil materials encountered during the boring were logged by the geologist as they were brought to the surface;
- The auger was placed in the hole and advanced to the desired sample depth and removed. Upon removal, the auger was scrubbed clean using an alconox and distilled water mixture. After scrubbing, the auger was rinsed with the alconox/water mixture and then rinsed again with distilled water. The auger was rinsed with acetone to remove any residual materials then air dried, and given a final rinse with distilled water.

- 4) A clean auger (the second) was used to collect the soil from the sample zone. The auger was advanced one foot and brought to the surface.
- 5) The soil was removed from the auger. Only the interior portion (3 to 4 inches) of the soil was collected for later analysis. The top and bottom of the sample was discarded. A portion of the sample was set aside for field analysis.
- The soil sample for laboratory analyses was placed in a wide-mouth amber jar or septum vials with a teflon-lined screw cap. A sample label was prepared showing the sample number, depth of collection, date, and analysis conducted. A Chain-of-Custody control form was also prepared.
- 7) The soil sample bottles were placed in a storage cooler at 4°C (wet ice) for transfer to the J M Sorge, Inc. offices in Somerville, NJ. (The samples were refrigerated until transfer to the laboratory for analysis).
- 8) The auger used to collect the sample for laboratory analysis was decontaminated using the procedure detailed in Item 3 above.
- 9) At the completion of the boring, the bore hole was backfilled with bentonite.

# MONITORING WELL INSTALLATION PROCEDURES

The monitoring wells will be drilled and installed under direct supervision of a New Jersey-licensed well driller and a J M Sorge, Inc. (JMS) hydrogeologist. The drilling company will contact NJDEP for a State well permit for each well. The wells will be constructed according to NJDEP's specifications for monitoring wells in unconsolidated formations.

Drilling will be done using a truck-mounted, hollow stem auger drill rig. Split spoon samples (Standard Penetration Test) will be taken at 5-foot intervals or changes in lithology. The JMS hydrogeologist will be responsible for collecting the soil samples and maintaining a detailed log of the materials penetrated in each boring. The split spoon samplers will be decontaminated before and after each use by a triple rinse method: 1. scrubbing with distilled water and alconox mixture; 2. acetone rinse; and, 3. final distilled water rinse.

Upon completion of the drilling, the monitoring wells will be constructed of 2-inch diameter, Schedule 40 PVC well-casing and screen (0.020-inch slot size) set in an 6-inch diameter boring. The total depth of each well will be determined in the field, but is expected to be about 30 feet below grade with the well screen set that at least 10 feet of the saturated thickness is "screened". The well screen will be placed so that a minimum of three (3) feet of screen extends above the top of the water table in order to monitor any product "floating" on top of the water. This will also allow for seasonal fluctuations in the water table. The well screen and riser pipe will be connected by threaded couplings; the bottom of the screen will have a bottom cap and the top of the riser will have a removable PVC cap. The riser pipe will extend approximately two (2) feet above the ground surface.

The annular space between the screen borehole wall will be filled with a sand filter pack (J. Morrie No. 2 sand or equivalent) that will extend a minimum of one (l) foot above the top of the screen. A bentonite pellet seal (minimum of l foot) will be placed on top of the sand pack prior to grouting the remaining anular space with a 5 percent bentonite/95 percent cement slurry. A steel protective casing with locking cap will be cemented at the surface to induce runoff away from the well and to prevent unauthorized entry into the well.

At the completion of the well installations, each well will be developed by pumping to remove any residual fine materials from the sand pack and the formation to ensure adequate water flow. Development will continue until the water flowing from the well is relatively clean and free of fines.

Following the development, the top of well casing elevation and ground surface elevation will be surveyed to within 0.01 foot by a New Jersey-licensed land surveyor. The locations of the wells will be plotted on a site map with respect to existing structures at the site.

#### SEPTIC TANK WATER AND SLUDGE SAMPLE COLLECTION

#### Equipment:

- o Telescoping pond sampler;
- o Stainless steel beaker (250 ml);
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- o Distilled water/alconox mixture, (2 gallons);
- o Acetone (1 gallon);
- o Two, plastic spray applicators;
- o Wide mouth amber glass jars and septum vials with teflon lined screw caps;
- o Sample cooler/ice packs;
- o Sterilized surgical gloves (disposable)

- Septic tank water sample is collected using a stainless steel beaker that is attached to the telescoping pond sampler;
- The sample is collected in a manner designed to minimize the disturbance of the water in order to avoid unnecessary mixing of sediment and water. Sterilized surgical gloves will be worn during the sampling procedure;
- The water samples are poured into a wide mouth amber glass jar with a teflon lined screw cap and two (2) 40 ml vials with teflon lined screw caps. Careful procedures are used to insure that no air remained in the septum vials. A sample label is prepared showing the sample number, sample location, date, time and analysis to be conducted. A Chain-of-Custody Control form is also be prepared;

- 4) The septic tank sludge sample is collected using the same procedure stated in Procedure 1 above;
- 5) The sludge sample is placed in a wide mouth amber glass jar with a teflon lined screw cap or wide mouth septum vials with teflon lined screw caps. A sample label is prepared showing the sample number, sample location, date, time and analysis to be conducted. A chain-of-custody control form is also prepared;
- 6) The water and sludge sample bottles are placed in a storage cooler at 4°C (wet ice) for transporting to the laboratory. All standard Chain-of-Custody Control procedures will be followed:
- 7) Between sample collections, the beaker is scrubbed clean using an alconox and distilled water mixture. After scrubbing, the beaker is rinsed with the alconox/water mixture and then rinsed again with distilled water. Finally the beaker is rinsed with acetone to remove any residual petroleum material (if present) and then is air dried.

# QUALITY ASSURANCE/QUALITY CONTROL

The following subsection details the soil sampling collection and laboratory analysis procedures utilized during the field operations at the facility location. These procedures represent methods utilized to ensure the validity of soil samples collected at the site and cover the means whereby borings were advanced and test pits excavated as well as the collection and transportation of the soil samples.

The sample analysis will be conducted by Accutest Laboratories of North Brunswick, New Jersey. Accutest is a New Jersey certified analytical laboratory capable of conducting the required analyses. The samples will be measured for total petroleum hydrocarbons and volatile organics, and priority pollutants. If for any reason another laboratory conducts the sample analysis, the appropriate QA/QC procedures will be provided. In any case sample analysis procedures will conform to NJDEP Laboratory Requirements (Attachment 2, Draft Sampling Plan Guide, June 6, 1986).

# HAND AUGER BORING AND SAMPLE COLLECTION

Soil borings will be made and samples collected from the all hand auger bore holes in the following manner:

# Equipment:

- o Two, 4-inch O.D. stainless steel hand augers (AMS manufacture);
- o Two, 8-inch length, stainless steel hand trowels;
- o Disposable fiber brush;
- o Distilled water (2 gallons);
- Distilled water/alconox mixture (2 gallons);
- o Acetone (1 gallon);
- Two, plastic spray applicators;
- o Wide mouth, amber glass jars with teflon-lined screw caps;
- o Sample cooler/ice packs;
- O Bentonite pellets.

- 1) The surface area will be cleared of debris by hand and a shallow hole dug (about 6 inches deep) with a hand trowel;
- The auger will be placed in the hole and advanced to the desired sample depth and removed. Upon removal, the auger will be scrubbed clean using an alconox and distilled water mixture. After scrubbing, the auger will be rinsed with the alconox/water mixture and then rinsed again with distilled water. The auger will be rinsed with acetone to remove any residual materials, then air dried, then given a final rinse with distilled water;
- The soil materials encountered during the boring will be logged by the geologist as they are brought to the surface;
- A clean auger (the second) will be used to collect the soil from the sample zone. The auger will be advanced one foot and brought to the surface;
- The soil will be removed from the auger. Only the interior portion (3 to 4 inches) of the soil will be collected for later analysis. The top and the bottom of the sample will be discarded. A portion of the sample will be set aside for field analysis (see below, 4-4).
- The soil sample for laboratory analyses will be placed in a wide-mouth amber jar with a teflon-lined screw cap. A sample label will be prepared showing the sample number, depth of collection, date, and analysis to be conducted. A Chain-Of-Custody control form will also be prepared. See Figure 4-1 for a copy of the Chain-of-Custody form.
- 7) The soil sample bottles will be placed in a storage cooler at 4°C (wet ice) for transfer to the J M Sorge, Inc. offices in Somerville, New Jersey. (The samples will be refrigerated until transfer to the laboratory for analysis).
- The auger used to collect the sample for laboratory analysis will be decontaminiated using the procedure detailed in Item 2 above.

- 9) After the sample is collected, the cleaned, first auger will be used to advance the bore hole to the next sample horizon. The sampling process described above will be then repeated.
- 10) At the completion of the boring, the bore hole will be backfilled with bentonite.

#### TEST PIT EXCAVATION SAMPLE AND COLLECTION

Soil samples will be collected from test pit excavations as described below. The sample collection and handling procedures used for the test pit samples are very similar to those described above for the auger borings.

#### <u>Equipment</u>:

- Backhoe (typically, 3,5-yard bucket, 18-foot reach);
  - o Two, 4-inch C.J. stainless steel hand augers:
  - Dwo, 3-inch length, stainless steel hand trowels;
  - Disposable fiber brush;
  - Distilled Water 1 gallons);
  - o Acetone lagaling:
  - z z Two plastic opray applicators;
    - Vide-mouth, imper vises pars and septum visis with terion-lined screw-caps;
    - Sample cooler tos hacké.

- 1. Test pit areas will be bleared of surficial depris by the backhoe.
- The machine will is used to excavate to within 0.5-foot of the desired sample horizon and a level surface cleared. The soil samples will be collected using a mand luger is the bucket of the backhoe cannot be adequately decontaminated.
  - The soil auger will be placed in the hole and advanced to the desired cample depth and removed. Upon removal, the auger will be sorupped clean using an alconox and distilled water tixture. After scrupping, the auger will be rinsed with the alconox/water mixture and then rinsed again with distilled water. The auger will be rinsed with abetone to remove any residual contamination, air dried, then given a final rinse with distilled water.
  - The soil materials encountered during the boring will selegated up a 7 % Sonda, Inc. geologist as they are crought to the surpase.

- 5) A clean auger the second auger: will be used to collect the soil sample from the zone of interest. The auger will be advanced about six inches and the soil material brought to the surface.
- The soil will be removed from the auger. Only the interior portion 3 to 4 inches; of the soil will be sollected for later analysis. The top and the bottom portions of the auger sample will be discarded. A portion of the sample will be set aside for field analysis.
- The soil sample for laboratory analysis will be placed in a wide-south amber par or a septum vial with a teflor lined screw tap. A sample label will be prepared snowing the sample humber, depth of sollection, late, and analysis to be conducted. A Chain-of-Custody control form will also se prepared.
- The soil sample pottles will be placed in a storage cooler at 100 wet ice; for transfer to the F M Sorge, Inc. offices in Jomerville, New Jersey.

# ATTACHMENT 6 PROJECT PERSONNEL RESUMES

# JOSEPH M. SORGE PRESIDENT

#### **EXPERIENCE**

Joseph Sorge as President is ultimately responsible for the technical quality and direction of the firm. For the past 10 years Mr. Sorge has worked in New Jersey on the solution of industrial hazardous waste problems ranging from Superfund to ECRA problems. As the former President of a national consulting firm, Mr. Sorge directed a team of over 40 professionals in various aspects of the hazardous waste field. Mr. Sorge has over 20 years of professional consulting experience covering an extremely broad range of the environmental field.

Mr. Sorge has concentrated his expertise on solving ECRA-related problems for the New Jersey based industry. Mr. Sorge stresses the development of total ECRA solutions through the development of a comprehensive program designed to clear the site in a practical manner. He has successfully applied this technique to numerous facilities ranging from large industrial complexes to small commercial properties. He has directed or managed the clearance of several hundred facilities.

Mr. Sorge directed a multi-million-dollar EPA support contract which included the development of technical training programs, permit applications guidance manuals, and the evaluation of advanced technical solutions to hazardous waste problems. He also managed an extensive investigation of landfill design and performance standards for the EPA which required the coordination of six (6) consulting organizations and two (2) EPA research units. The results of the investigation were used as the technical basis for modifying portions of the Federal RCRA regulations.

Joseph Sorge's experience in project management for industrial clients includes: air monitoring projects, PSD air studies, and facility siting and feasibility studies. Mr. Sorge's practical knowledge of environmental regulatory programs resulted in assistance to industrial clients in Michigan, Wisconsin, Illinois and Indiana on three (3) nuclear power facilities, chemical plants, waste water treatment facilities and other industrial complexes. The scope of projects handled included air pollution, waste disposal, monitoring system design and quality assurance.

**EDUCATION** 

MS - Atmospheric Physics (1974)
State University of New York - Albany

BS - Physics/Math (1973) University of Wisconsin

REGISTRATIONS

Certified Consulting Meteorologist (#225)

PROFESSIONAL ORGANIZATIONS

Sigma Pi Sigma - Physics Honor Society Air Pollution Control Association National Council of Industrial Meteorologists (#97) American Meteorological Society

**CERTIFICATION** 

Certified Energy Consultant (NJ)
OSHA Supervisor Training
Confined Space Entry Training
Underground Storage Tank Certification (NJ)
Underground Storage Tank Certification (PA)

# MICHAEL J. NOVAK SENIOR ENGINEER

**EXPERIENCE:** 

Michael Novak is responsible for conducting environmental site evaluations, the development and implementation of Remedial Investigation Plans, and the planning and implementation of both soil and groundwater remediation programs. As a Project Manager, he assisted over thirty (30) large and small industrial clients in gaining New Jersey Environmental Clean-up Responsibility Act (ECRA) clearance. Mr. Novak has also prepared Discharge Investigation and Corrective Action Reports (DICAR) for several facilities regulated by the NJDEPE Bureau of Underground Storage Tanks (BUST) program. He has assisted clients with obtaining New Jersey Pollution Discharge Elimination System (NJPDES) permits for both surface and groundwater discharges. In addition, he has conducted investigations for facilities regulated by the Discharge Prevention Control and Countermeasures (DPCC) Act.

In addition to NJDEPE-related projects, Mr. Novak has conducted several environmental site assessments for commercial real estate firms, banking institutions and investment trust organizations. He recently directed a rapid evaluation and assessment of 81 commercial facilities located in more than 30 states across the USA. Each facility was inspected by JMS personnel for environmental concerns, including the presence of USTs or hazardous materials.

Prior to joining J M Sorge, Inc., Mr. Novak served as a Staff Engineer with the Earth Technology Corporation. In that position his duties included field inspections, groundwater and soil and surface water sampling, as well as installation of groundwater monitoring systems.

**EDUCATION:** 

B.S. Industrial Engineering (1987) Lehigh University Bethlehem, Pennsylvania

PROFESSIONAL MEMBERSHIPS

Institute of Industrial Engineers

CERTIFICATION

OSHA Supervisor Training
OSHA Health and Safety Training
Underground Storage Tank Certification (NJ)
Underground Storage Tank Certification (PA)

# CHRISTOPHER J. FINLEY PROJECT ENGINEER

#### **EXPERIENCE**

Chris Finley is responsible for conducting Due Diligence site investigations; the development and implementation of Remedial Investigation Plans; and, the planning and implementation of Remedial Action Work Plans, which include both soil and groundwater remediation programs. As a Project Engineer, he assists large and small industrial and commercial clients in the preparation and implementation of regulatory compliance programs in accordance with the requirements of Federal and State environmental regulatory agencies (i.e., ISRA, RCRA, NJPDES and BUST). Mr. Finley is also responsible for the Quality Assurance/Quality Control of all laboratory data.

Prior to joining J M Sorge, Inc., Mr. Finley served as an Assistant Township Engineer with the Township of Brighton. His duties included preliminary site plan review as well as engineering specifications and calculations for township projects. Projects consisted of design and implementation of water and wastewater transportation systems, along with surface detention and retention pond capacities for a 100 year storm event.

**EDUCATION** 

BS - Civil Engineering (1990)
Rochester Institute of Technology
Rochester, New York

Associates Degree - Applied Science Raritan Valley College Bridgewater, New Jersey

CERTIFICATION

OSHA Health and Safety Training Confined Space Entry Training Underground Storage Tank Certification (NJ)

**MEMBERSHIP** 

American Society of Civil Engineers

# KURT M. ROCK SENIOR STAFF SCIENTIST

#### **EXPERIENCE**

Kurt Rock is responsible for conducting field investigations of commercial and industrial waste sites including those regulated by the Environmental Clean-up Responsibility Act (ECRA). He conducts site inspections, groundwater and soil and surface water sampling under the direction of a J M Sorge, Inc. Project Manager. He works closely with J M Sorge, Inc. geologists and hydrogeologists to develop and install groundwater monitoring systems.

Mr. Rock's responsibilities also include conducting waste inventories, facility histories, and ECRA General Information Submissions and Site Evaluation Submissions.

**EDUCATION** 

BA - Geography (1987)

East Stroudsburg University

East Stroudsburg, Pennsylvania

**CERTIFICATION** 

OSHA Supervisor Training
OSHA Health and Safety Training
Confined Space Entry Training
Underground Storage Tank Certification (NJ)
Test Boring Certification (NJ)